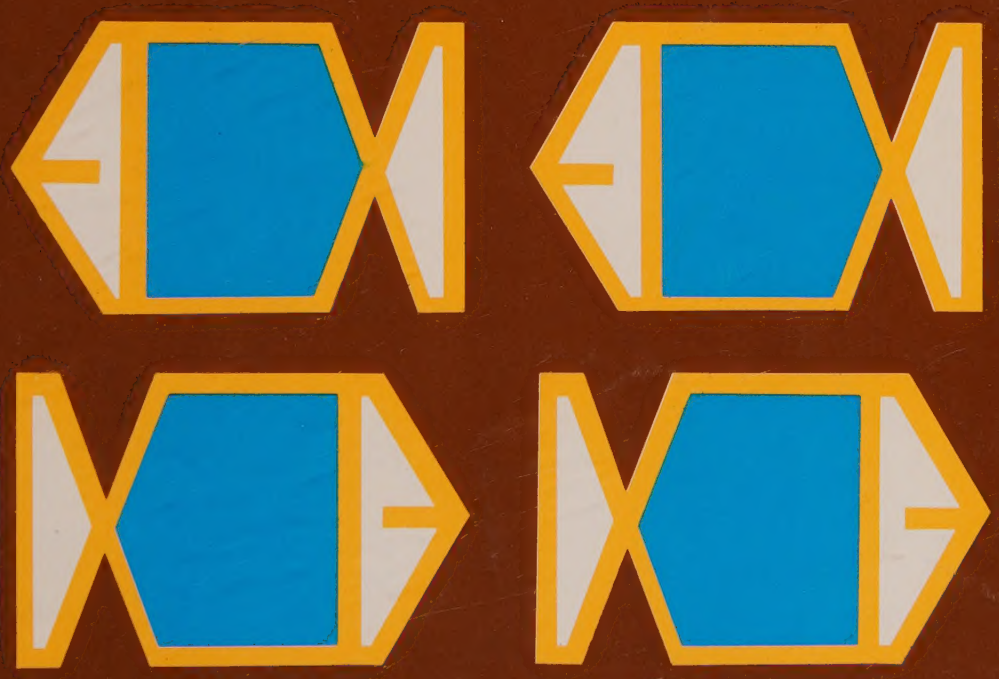
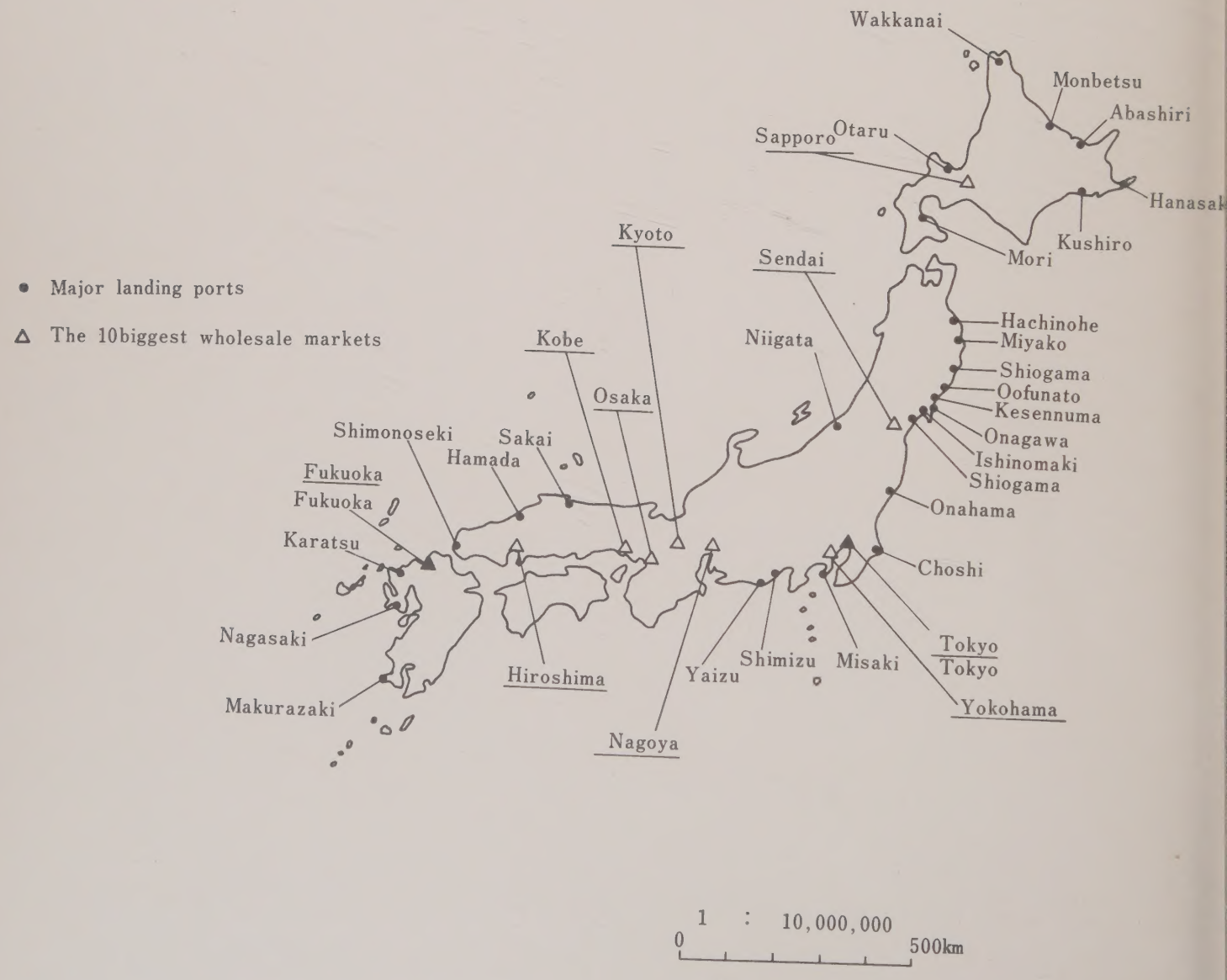
FISHERIES STATISTICS OF JAPAN 1970



STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE AND FORESTRY
GOVERNMENT OF JAPAN

MAJOR LANDINGPORTS AND THE 10 BIGGEST WHOLESALE MARKETS IN JAPAN



FISHERIES STATISTICS OF JAPAN 1970

STATISTICS AND INFORMATION DEPARTMENT
MINISTRY OF AGRICULTURE AND FORESTRY
GOEERNMENT OF JAPAN

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FOREWORD

"The Fisheries Statistics of Japan" has been published every year since 1963 by the Statistics and Survey Department, Economic Affairs Bureau, Ministry of Agriculture and Forestry with the aim of making foreigners know briefly about the present situation of fisheries in Japan through the fishery statistics.

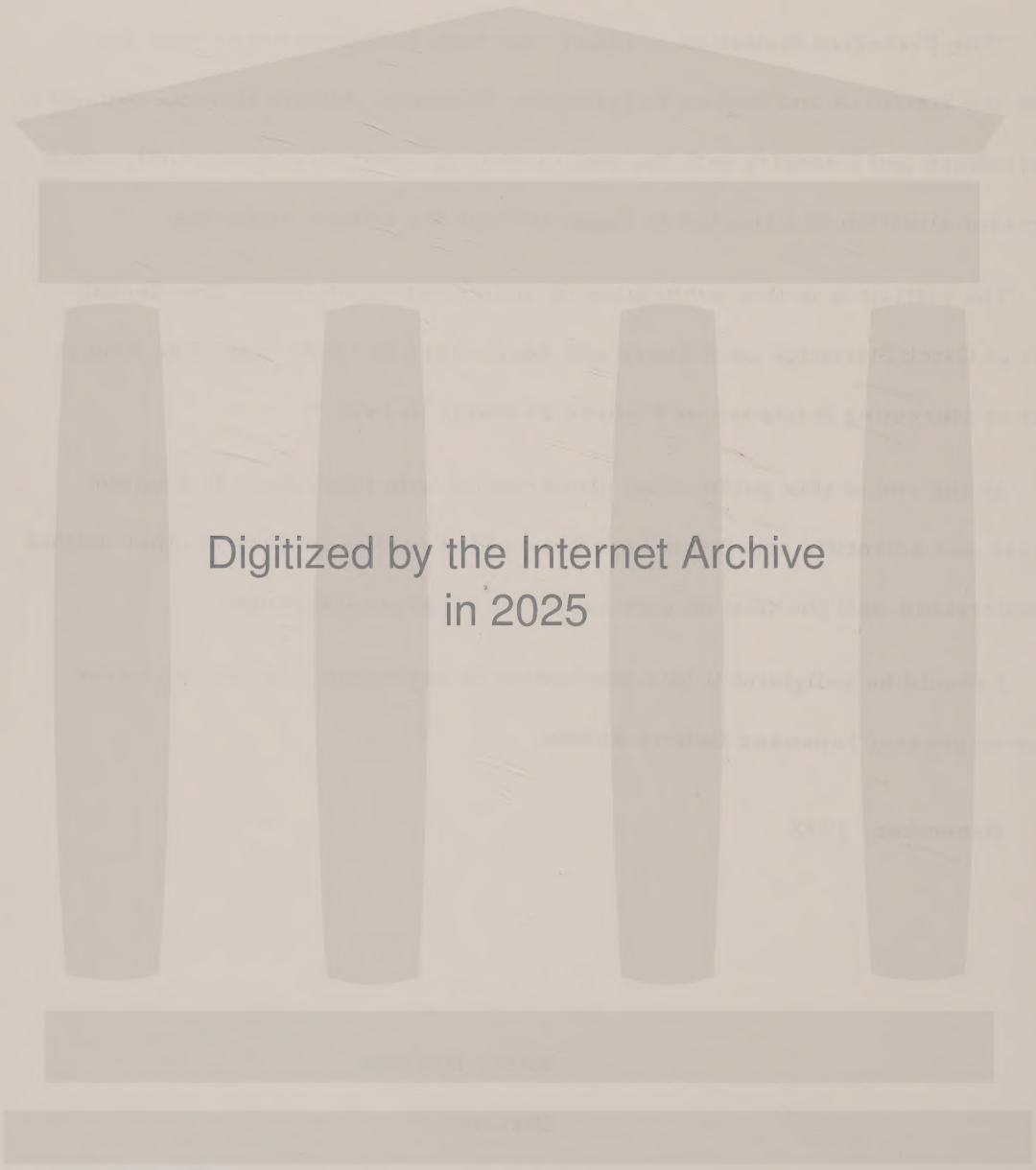
The statistics in this publication is mainly extracted from "The Annual Report of Catch Statistics on Fishery and Aquiculture in 1970" and "The Annual Report of Marketing Statistics of Fishery Products in 1970."

At the end of this publication, illustrations with fish names in English, Japanese and scientific appelation have been added so that readers in other nations may understand well the fish species caught by Japanese fishermen.

I should be delightful if this publication is serviceable for having a true picture of present Japanese fishery known.

December, 1972

Kazuo Ohyama
Director,
Statistics and Information Department,
Economic Affairs Bureau,
Ministry of Agriculture and Forestry
Government of Japan.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Explanation

I. Fishery Production of Japan

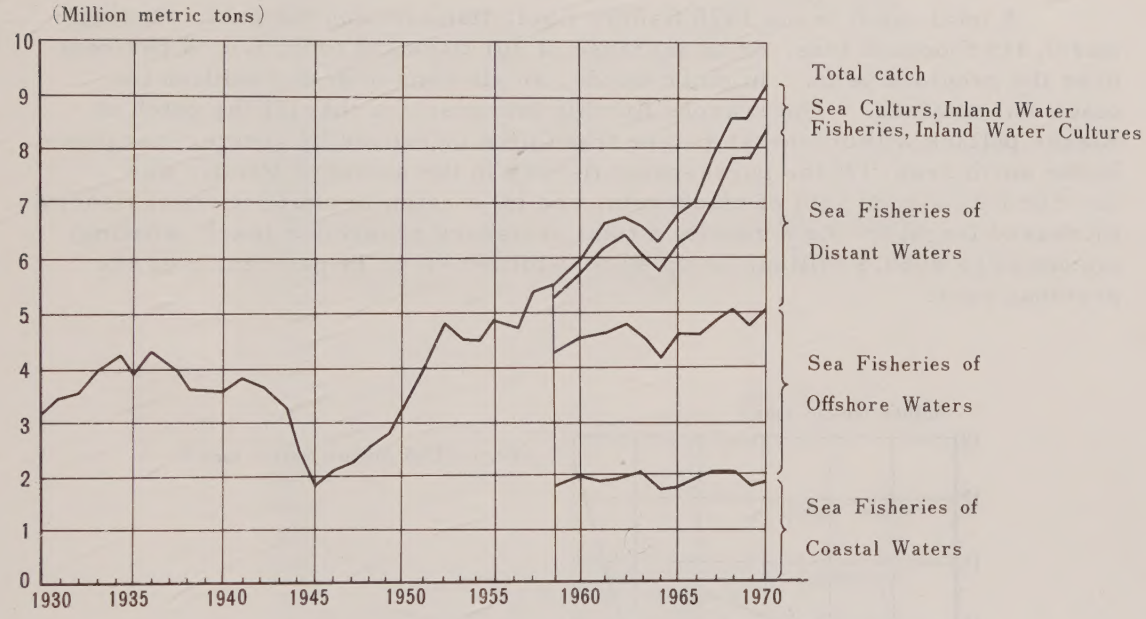


Fig. 1 JAPANESE TOTAL CATCH, 1930~1970

1. Changes of the Fishery Production by Years

Before World War II, the highest fishcatch in Japanese fishery including fish farming pointed to 4,330 thousand tons in 1936, which centered on a sardine catch.

The fishery production of Japan was severely hit by the War. As a result, the catch was reduced by half. But in 1952 the catch topped that prewar highest level to 4,823 thousand tons. After that, the catch continued to increase almost favorably and reached 6,864 thousand tons in 1962, coupled with a development of offshore and long-distance fisheries and with a progress of fishing skills and technology.

Momentarily in 1963 and 1964, however, the catch fell off. This was because of (1) a reduced number of mothership-type trawl fleets in long-distance fisheries, (2) a poor haul of herring and flatfish, and, (3) a poor catch in offshore fisheries involving purse-seine, saury stick-held-dip net and squid fishing operations.

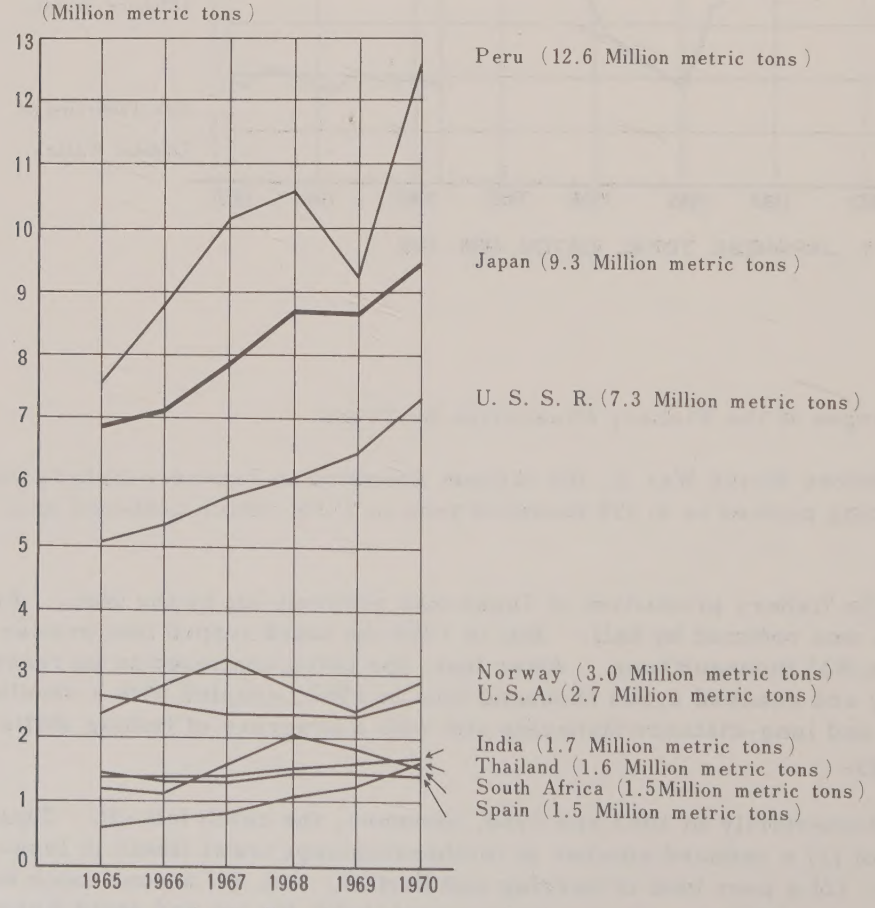
In 1965, the catch started to go up again. This was because of (1) a recovery of offshore fishery and (2) a new development of trawl fishing grounds. Thus, in 1968 and 1969, the catch came up to the level of 8 million tons because

(1) a heavy catch of Alaska pollack was obtained in the northern Pacific grounds and (2) the case of mackerel catch in the fishing grounds on and around Japan was the same, too.

2. Fishcatch in 1970

(1) Total Production

A total catch in the 1970 fishery (incl. fish farming but excl. whaling) was 9,315 thousand tons, or an increase of 701 thousand tons, i.e. 8 per cent over the previous year. In other words, an all-time high of 9 million ton catch was attained. The reasons for this increase are that (1) the catch of Alaska pollack with mothership-type trawl nets increased by greater margins in the north seas, (2) the purse-seine fishery in the northern Pacific was favored with a good haul of mackerels, and (3) a catch in offshore trawl fishery increased largely. As a result, a total of fishery production (excl. whaling) amounted to ¥969.2 billion, or up ¥120.3 billion, i.e. 14 per cent over the previous year.



Note: We guss it more than 5 million tons to catch of fishery in China (mainland).

Fig. 2 WORLD CATCH BY COUNTRIES, 1965~1970

Furthermore, a total of 1970 worldwide catch was 69,300 thousand tons. Of this, the catch of Japan accounted for 13 per cent, which worldwidely ranks second next to 12,613 thousand tons of Peru.

(2) Production by fishery sector

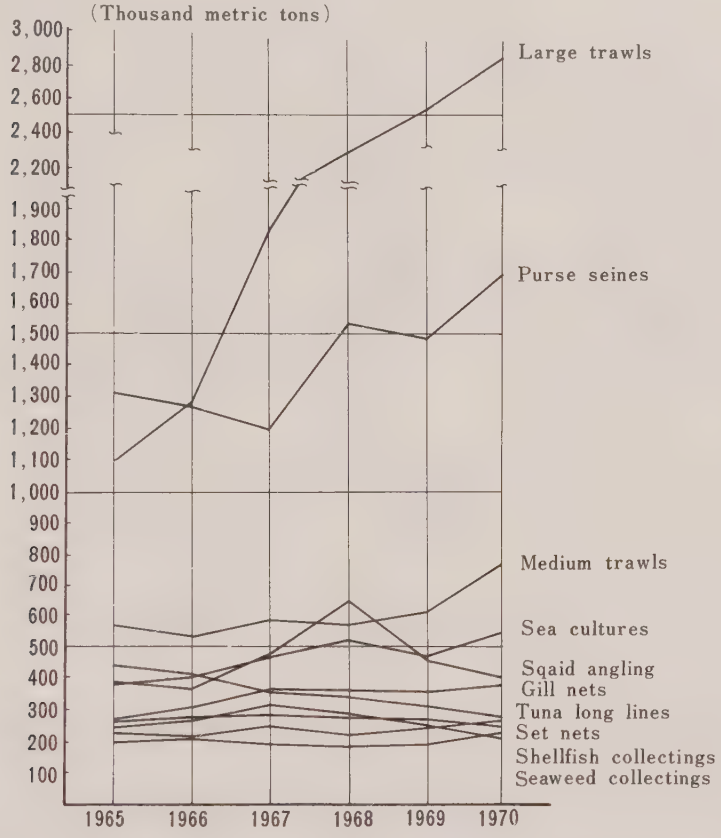


Fig 3. CATCH IN QUANTITY BY MAJOR FISHERIES, 1965~1970

Marine fishery gained a catch of 8,598 thousand tons or ¥785.2 billion. This shows an increase of 8 per cent in catch volume or 13 per cent in yield value respectively over the previous year.

Marine fish farming went on favorably. That is to say, the yield got to 549 thousand tons or ¥135.3 billion in 1970, or up 16 per cent or 20 per cent respectively over the previous year. This is because (1) young yellowtail farming continued to grow steadily and (2) "Wakame" seaweed farming was in a good growth favored with sea and weather conditions.

Inland-water fishery attained a catch of 119 thousand tons or ¥17.0 billion, or an increase of 6 per cent or 18 per cent respectively over the previous year. Such an increase in yield is due to the fact that fresh water clams accounting for a half of catch in inland water fishery were taken in larger quantities. On the other hand, the increased yield in value resulted from a rise in prices of eel, carp and crucian carp.

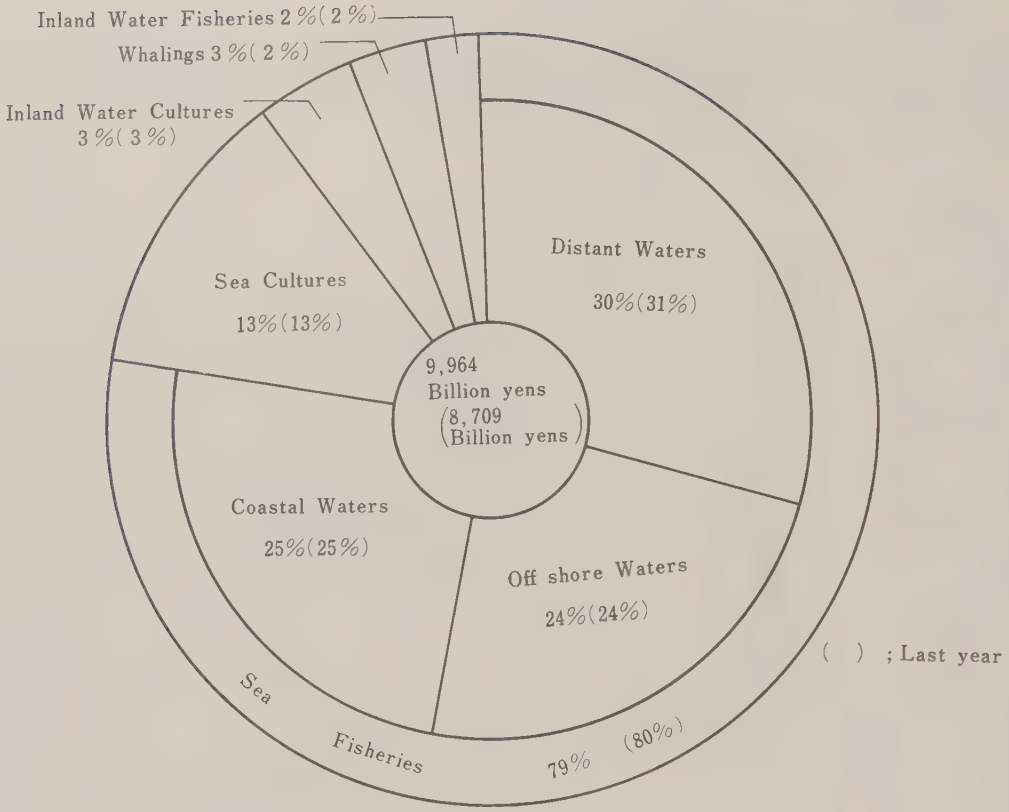


Fig. 4 RATIO OF VALUE BY FISHERIES, 1970.

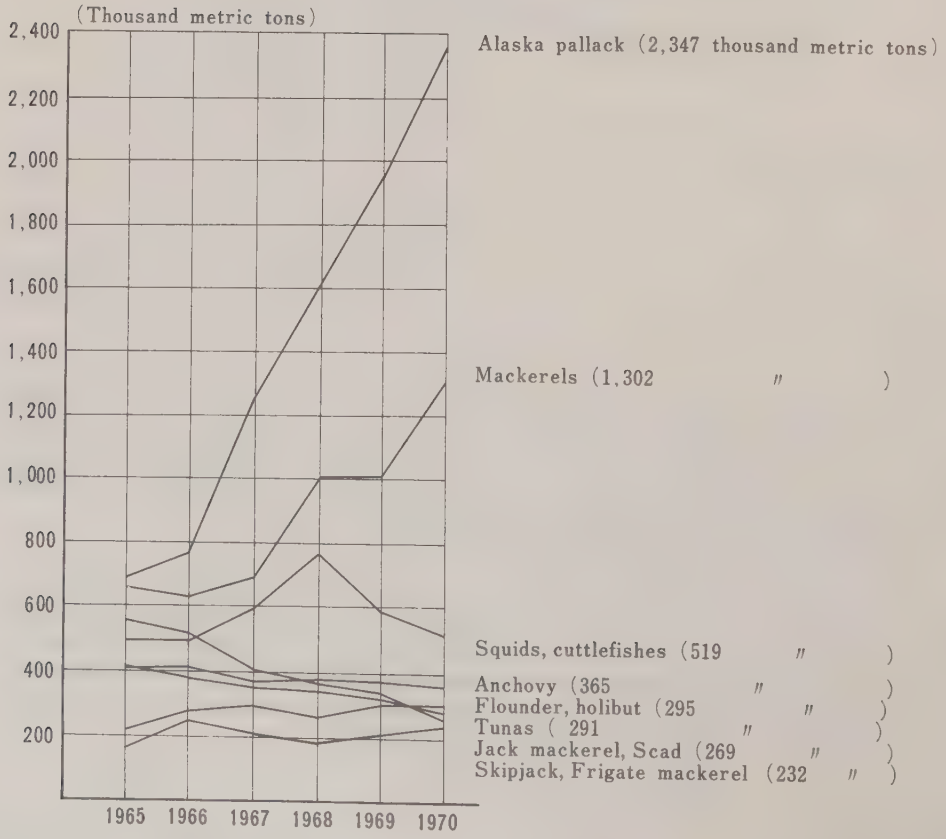


Fig. 5 CATCH IN QUANTITY BY MAJOR SPECIES, 1965~1970

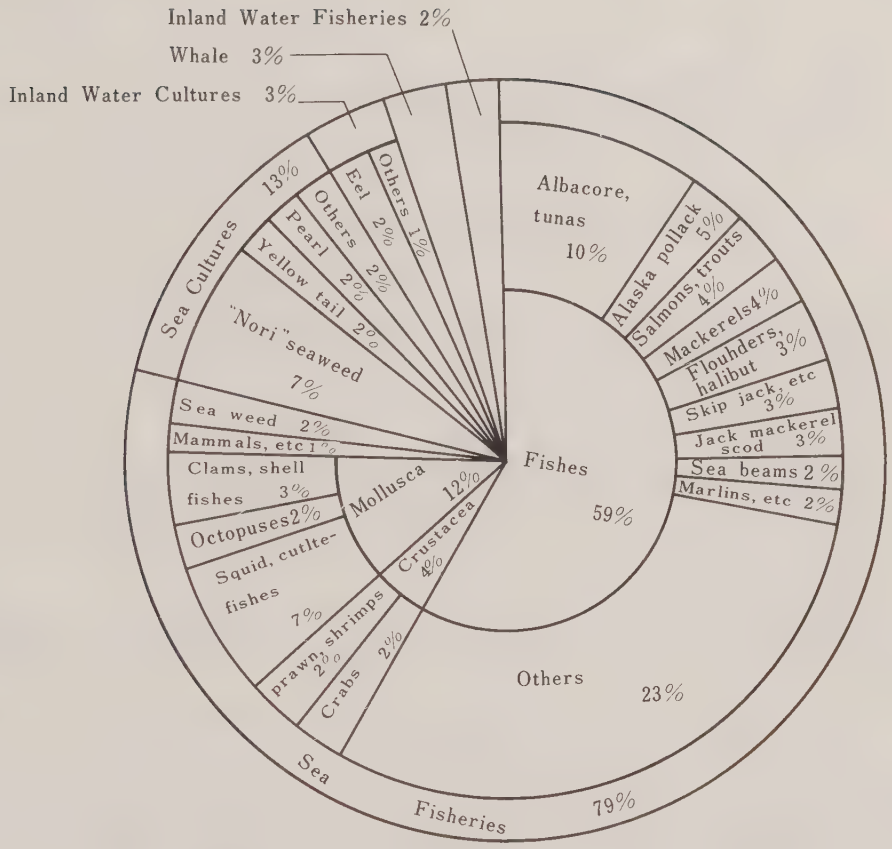


Fig. 6 RATIO OF VALUE BY MAJOR SPECIES, 1970.

Inland water fish farming obtained a catch of 48 thousand tons in volume or ¥31.7 billion in value. This represents a decrease of 9 per cent in volume or an increase of 11 per cent in value respectively as compared with the catch of previous year. This is mainly because a conspicuous rise in prices of trout, carp, eel, etc. was withessed despite the decreased yield of eel and crucian carp.

Whaling fishery gained a catch of 16,887 head whales or ¥27.2 billion. Of this, baleen whales accounted for 9,703 head, i.e. 2,422 head upon BWU. Also, sperm whales and small-size whales numbered 6,548 and 636, respectively.

II. Setup of Fishery Production in Japan

1. Marine Fishing Establishments

Number of Japanese Marine fishing establishments (excl. those not using fishing boats) continued to slightly increase in recent years. In 1970, however, it decreased to 228.2 thousand, or a decrease of 4 thousand, i.e. 1.7 per cent from the previous year.

Of this, coastal fishing establishments numbered 218.6 thousand, accounting for 96 per cent of total. A comparison of the fishing establishments in 1970 with those in 1965 was like this: both brackets of powered boats and marine fish

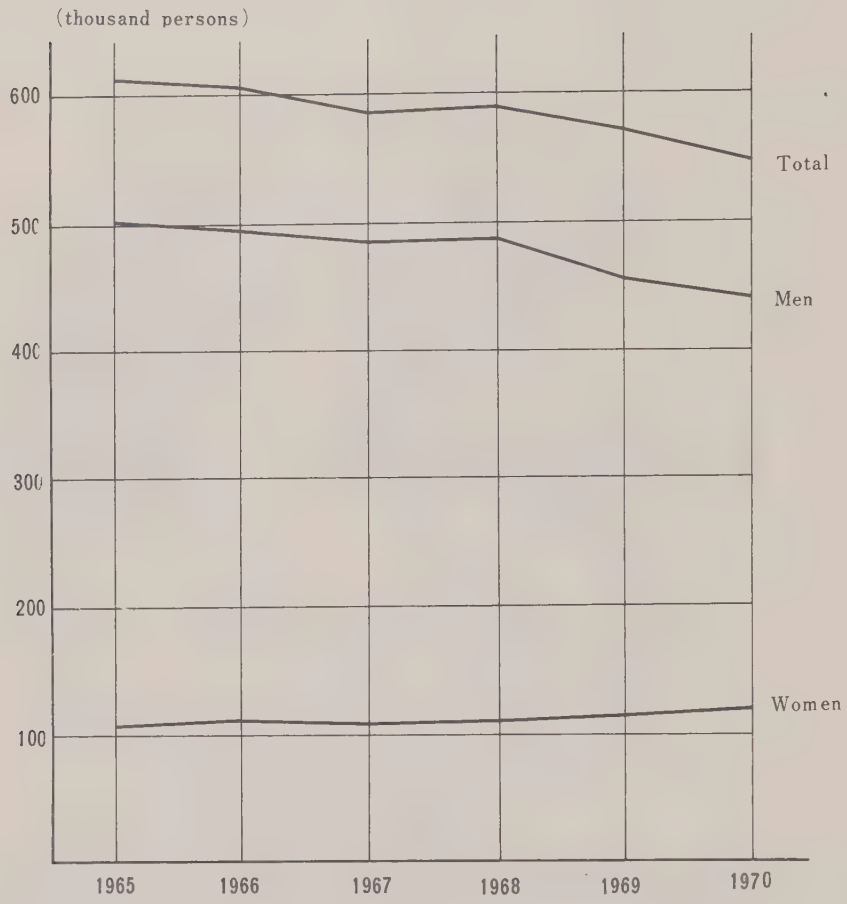


Fig. 7 FISHING MAN POWER ACTIVELY ENGAGED IN MARINE FISHERY, 1965~1970.

farming indicated an increase in number of 16 per cent and 11 per cent, respectively, while the non-powered boat brackets and the brackets of fixed net · beach seine net decreased largely in number of fishing establishments.

On the other hand, in both the medium-and small-size fishery having a total of more than 10 G. T. of powered fishing boat as well as the large-seze fishery, the number of fishing establishments stood at 9,600. This accounted for 4 per cent of total. In comparison of this with 1965, an increase of 700 fishing establishments, i. e. 8 per cent was withnessed; and a growth in more than 500 G. T. of powered boat was particularly marked.

2. Marine Fishery Workers

Japanese Marine fishery workers continued to decrease slightly in recent years and came down to 549. 4 thousand persons in 1970. This represents a decrease of 22. 7 thousand persons, i. e. 4 per cent from the previous year.

The major reason for the decreased fishery workers is that the flow of labor force into other industries from the primary industry has recently been accelerated in line with an economic growth centered on the secondary industry of late.

Seeing by category of either coastal fishery or smaller-and large-size fishery, the fishery workers in the former decreased from 72 per cent in 1965 to 70 per cent in 1970, while that in the latter increased.

Also, the composition ratio by sex tells us that the proportion of men was decreasing year after year from 82 per cent in 1965 and came down to 80 per cent in 1970, and, at the same time, that it is very likely that women have been advancing into men's work places at an increasing pace year after year.

3. Fishing Boats

A total number of Japanese fishing boats were gradually decreasing in recent years, but in 1970 they amounted to 370.6 thousand meaning the same level with the previous year. As compared with 1965, this represents a decrease of 10.5 thousand boats, i.e. 3 per cent due to the decreased non-powered boats.

In comparison of non-powered boats and powered boats, the former's percentage fell off from 43 per cent in 1965 to 28 per cent in 1970. Also, considerably increased powered boats were the outboard-engine boats less than 1 G. T. and the boats of 3 to 5 G. T.

III. Export and Import of Japanese Fishery Products

1. Imports

Fishery imports to Japan were increasing rapidly year after year. In 1968, these somewhat stagnated but increased in a succession of 1969 and 1970, reaching ¥114.6 billion in 1970. This sum was equivalent to 20.8 times that of 1960 and 3.1 times that of 1965, which accounted for 1.67 per cent of Japanese total imports.

Fishery imports for human consumption in 1970 came up to ¥96.8 billion. Of these, fresh and frozen fish products accounted for 80 per cent, and particularly the weight of shrimp was large.

On the other hand, fishery imports for non-human consumption got to ¥17.8 billion. Of these, the percentage occupied by fishmeal lowered to 38 per cent in 1970 from 40 per cent in the previous year.

Major nations having exported to Japan were:
Republic of Korea (13%), People's Republic of China (10%), USA (10%), Mexico (6%), Australia (5%), Thailand (5%), etc.

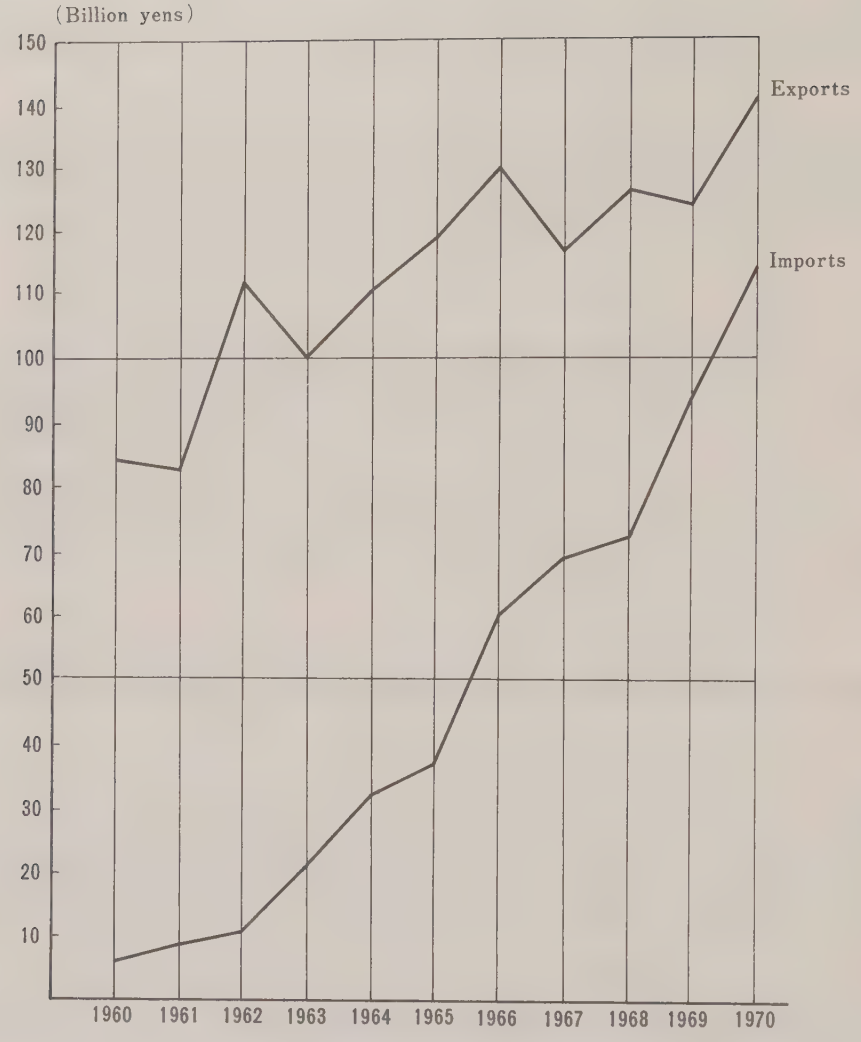


FiG.8 VALUE OF FOREIGN TRADE, 1960~1970.

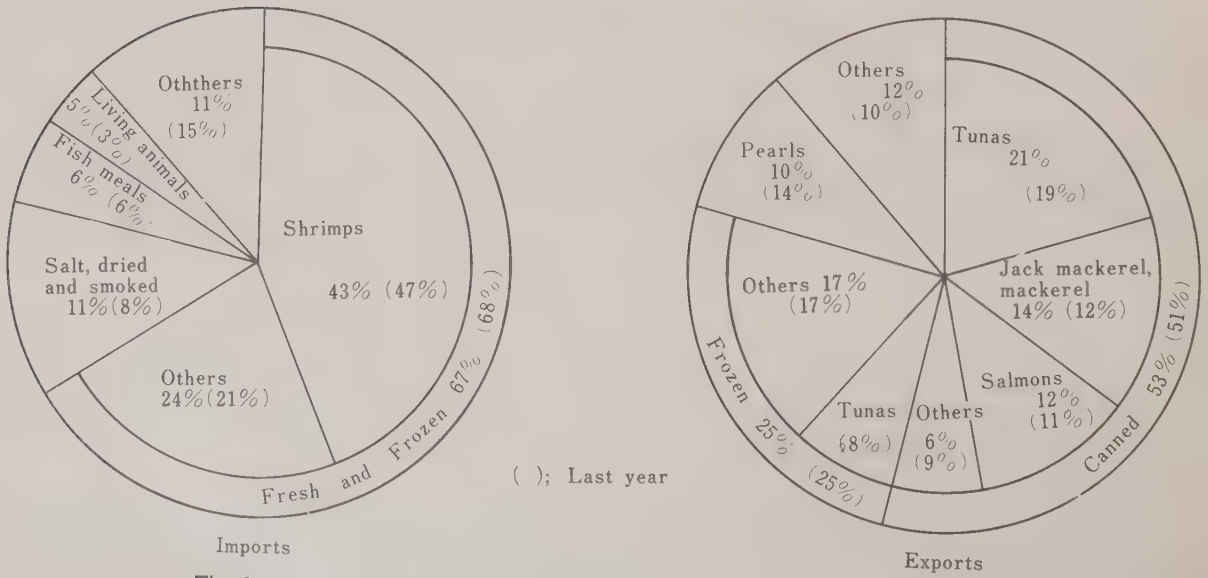


Fig. 9 RETIO OF VALUE BY COMMODITY OF FOREIGN TRADE, 1970

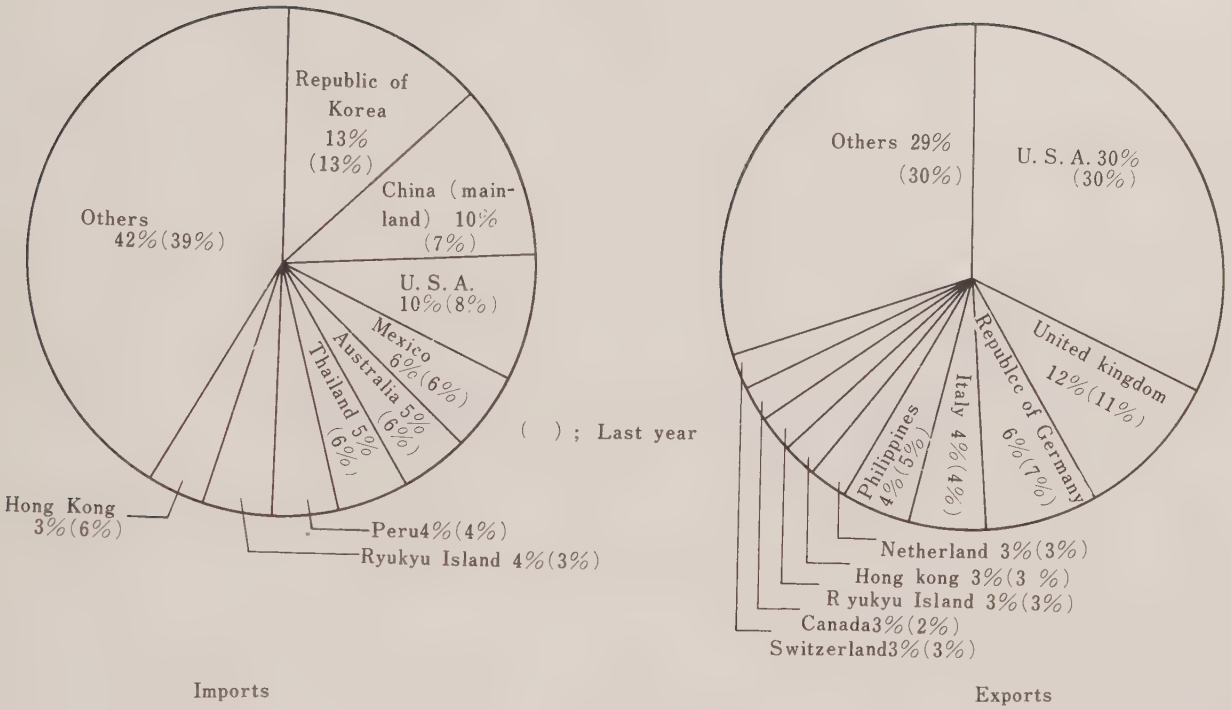


Fig. 10 RATIO OF VALUE BY COUNTRIES OF FOREIGN TRADE, 1970

2. Exports

Fishery exports from Japan were on a gradual increase. In 1970 these amounted to ¥140.7 billion, or up ¥15.8 billion i.e. 13 per cent over the previous year. These corresponded to 2.0 per cent of the Japanese total exports.

Fishery exports for human consumption got to ¥115.9 billion. Of these, major items were as follows: canned tuna (21%), canned mackerel or Jack mackerel (14%) canned salmon (12%), frozen tunas (8%), etc.

Fishery exports for non-human consumption amounted to ¥24.8 billion. Culture pearl exports occupying a majority of those fishery exports did not increase because of the decreased demand for culture pearls. Accordingly, culture pearl exports in 1970 amounted to ¥14.7 billion, or down 16 per cent from the previous year. In other words, these exports in 1970 corresponded to 64 per cent of 1965 culture pearl exports (¥23.1 billion).

Major nations having imported from Japan were: USA (30%), United kingdom (12%) Republic of Germany (6%), Italy (4%), Philippines (4%), etc.

STATISTICAL TABLES

1. SUMMARY OF CATCH BY FISHERY SECTOR, 1940～1970

Quantity : Thousand metric tons
Value : Hundred million yens.

Year	Sea Fisheries		Sea Cultures		Inland Water Fisheries		Inland Water Cultures		Total		Whalings	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Numbers	Value
1940	3,427	---	78	---	---	---	19	---	3,526	---	9,628	---
1945	1,750	---	61	---	---	---	12	---	1,824	---	531	---
1950	3,255	---	48	---	63	---	5	---	3,373	---	5,332	---
1951	3,774	---	88	---	60	---	6	---	3,930	---	6,335	---
1952	4,646	---	113	---	53	---	9	---	4,823	---	7,816	---
1953	4,387	---	144	---	57	---	8	---	4,598	---	6,631	---
1954	4,304	---	145	---	82	---	9	---	4,541	---	9,591	---
1955	4,658	---	154	---	82	---	11	---	4,907	---	11,866	---
1956	4,488	2,012	180	206	90	62	13	30	4,772	2,310	14,124	160
1957	5,067	2,303	244	174	81	73	14	31	5,407	2,582	15,439	213
1958	5,198	2,257	214	205	78	70	15	37	5,506	2,569	19,922	196
1959	5,568	2,535	225	236	75	69	15	36	5,884	2,877	20,527	221
1960	5,817	2,983	284	338	74	80	15	47	6,192	3,448	19,649	234
1961	6,287	3,340	322	455	81	93	18	64	6,710	3,952	20,845	267
1962	6,397	3,567	362	538	84	94	20	68	6,864	4,266	22,237	269
1963	6,200	3,988	389	650	84	98	23	94	6,698	4,830	22,370	309
1964	5,868	4,039	362	724	89	102	29	111	6,350	4,976	24,409	323
1965	6,382	4,516	380	816	113	100	33	126	6,908	5,558	26,986	366
1966	6,558	5,005	405	974	103	118	36	164	7,103	6,260	22,784	290
1967	7,241	5,677	470	1,074	97	109	42	166	7,851	7,026	21,088	252
1968	7,993	6,097	522	1,010	103	119	52	221	8,670	7,447	21,586	237
1969	7,976	6,928	473	1,130	112	144	52	285	8,613	8,488	17,409	221
1970	8,598	7,851	549	1,353	119	170	48	317	9,315	9,692	16,887	272

2. SUMMARY OF CATCH BY SPECIES, 1940～1970

Unit : Thousand metric tons.

Year	Sea Waters					Inland Waters					Total
	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	Fishes	Molluscs	Crus-taceans	Aquatic plants	Others	
1940	2,435	441	35	523	---	29	---	---	---	---	3,526
1945	1,222	313	31	228	---	13	---	---	---	---	1,824
1950	2,210	760	49	257	28	32	12	1	23	1	3,373
1951	2,572	922	56	290	22	30	12	1	23	2	3,930
1952	3,268	1,033	72	361	27	35	13	1	12	1	4,823
1953	3,253	889	70	292	27	37	15	1	12	2	4,598
1954	3,239	786	99	287	38	44	14	2	31	1	4,541
1955	3,541	802	106	310	53	52	14	3	25	1	4,907
1956	3,441	774	95	304	52	60	16	3	24	3	4,772
1957	3,877	894	108	402	27	64	24	5	2	4	5,407
1958	4,017	893	119	339	42	62	26	3	1	4	5,506
1959	4,267	1,027	119	337	44	59	26	1	1	4	5,884
1960	4,463	1,078	126	386	51	60	25	1	1	3	6,192
1961	5,015	985	138	425	49	66	28	2	1	3	6,710
1962	4,911	1,158	149	501	41	69	30	2	1	3	6,864
1963	4,653	1,303	159	425	51	72	33	1	1	2	6,698
1964	4,745	925	153	361	48	80	35	1	0	2	6,350
1965	5,093	1,082	132	406	52	86	56	1	0	2	6,908
1966	5,232	1,097	142	436	57	86	50	1	0	2	7,103
1967	5,742	1,225	149	534	60	92	42	2	0	2	7,851
1968	6,340	1,430	186	503	57	104	44	2	1	4	8,670
1969	6,561	1,238	153	444	53	107	51	3	1	3	8,613
1970	7,289	1,132	146	521	59	103	58	3	1	3	9,315

3. CATCH IN QUANTITY BY SPECIES, 1965~1970

Unit ; Metric tons.

Species	1965	1966	1967	1968	1969	1970
Grand Total 1)	**6,907,569**	**7,102,482**	**7,850,780**	**8,670,137**	**8,613,422**	**9,314,662**
Sea Fisheries 1)	**6,381,629**	**6,557,646**	**7,241,370**	**7,993,048**	**7,975,928**	**8,597,761**
Fishes	**5,078,229**	**5,214,912**	**5,712,303**	**6,307,788**	**6,528,303**	**7,245,352**
Albacore, tunas	430,290	398,330	367,324	352,887	332,749	291,017
Marlins, swordfishes	90,442	81,721	73,692	70,233	68,773	66,733
Skipjack, frigate mackerel	166,802	258,816	211,202	191,439	209,378	231,901
Sharks, rays	66,951	71,091	67,598	56,029	59,186	60,689
Salmons, trouts	145,662	126,629	148,419	113,790	141,309	117,896
Herring	50,169	48,617	63,672	67,920	85,240	97,374
Sardine, round herring	38,288	39,774	40,824	59,565	49,717	40,626
Anchovy	405,906	407,665	365,240	357,668	376,801	365,471
Jack mackerel, scad	560,487	514,388	423,352	358,092	340,588	269,311
Mackerels	668,574	624,423	687,474	1,015,279	1,011,406	1,301,918
Saury	231,377	241,840	220,087	140,204	63,288	93,129
Yellow tails	43,819	38,950	48,623	48,363	51,125	54,875
Flounders, halibut	216,266	272,969	299,708	261,017	296,367	295,410
Cod	90,088	85,849	96,070	109,470	103,780	117,119
Alaska pollack	690,895	774,788	1,247,003	1,606,025	1,944,320	2,346,710
Atka mackerel	107,288	106,016	81,912	86,855	102,581	146,516
Rock fishes	107,795	128,036	132,607	147,389	114,710	87,073
Croakers	100,722	98,381	85,620	70,980	66,137	64,311
Hairtail	47,682	45,414	68,307	59,904	63,565	54,855
Sea beams	40,105	39,149	40,539	37,782	38,137	38,329
Spanish mackerels	5,757	6,605	6,950	19,915	21,141	19,870
Sand lance	111,706	71,152	102,482	150,473	106,541	227,077
Others	661,158	734,309	843,598	926,510	881,464	857,142
Crustacea	**131,431**	**141,632**	**148,296**	**185,440**	**152,753**	**145,509**
Spiny lobster	1,574	1,566	1,551	1,690	1,602	1,485
"Kuruma" prawn	2,915	2,268	2,031	1,573	1,290	1,263
Other prawns, shrimps	63,374	66,227	58,599	64,440	56,593	52,889
King crab	25,932	30,957	30,275	30,350	22,522	17,557
Queen crab	16,380	19,487	31,864	61,679	52,311	53,265
Other crabs	21,256	21,127	23,976	25,708	18,435	19,050
Mollusca	**870,763**	**875,911**	**992,631**	**1,161,867**	**992,055**	**935,864**
Common squid	396,902	382,899	477,012	668,364	478,160	412,240
Other squids, cuttlefishes	102,465	102,128	119,836	105,413	111,638	106,677
Octopuses	78,057	65,551	98,130	102,718	92,418	96,127
Abalone	4,340	5,580	5,958	6,141	6,463	6,466
Short necked clams	121,249	157,511	121,618	120,401	116,572	141,097
Common scallop	5,742	7,370	6,819	4,989	14,644	16,477
"Mogai" clam	31,102	22,160	40,681	37,876	38,289	28,276
Other clams, shellfishes	130,906	132,712	122,577	115,965	133,871	127,604
Echinodermata, etc.	**46,292**	**52,663**	**60,090**	**55,151**	**51,800**	**57,764**
Marine mammals 1)	**2,277**	**2,374**	**1,033**	**1,288**	**1,026**	**1,512**

Unit ; Metric tons.

Species	1965	1966	1967	1968	1969	1970
Sea weeds	**252,637**	**270,152**	**318,017**	**281,513**	**249,991**	**211,760**
Kelps	126,680	155,757	175,883	169,874	147,580	110,780
"Wakame" seaweed	61,883	41,934	63,533	48,263	38,016	45,574
Others	64,074	72,461	78,601	63,376	64,395	55,406
Sea Cultures	**379,696**	**405,195**	**470,137**	**521,941**	**473,293**	**549,082**
Yellow tail	14,799	16,875	21,169	31,777	32,722	43,300
Pearl	99	118	125	112	97	85
Oyster	210,603	221,139	232,200	267,388	245,458	190,799
"Nori" seaweed	140,753	128,440	157,550	144,969	134,320	231,464
"Wakame" seaweed	12,537	37,809	58,080	76,698	59,821	76,360
Others	905	814	1,013	997	875	7,074
Inland Water Fisheries	**113,148**	**103,266**	**97,421**	**103,212**	**112,157**	**119,364**
Salmons, trouts	4,775	3,508	4,349	2,602	3,214	3,171
Sweet fish	8,217	6,998	7,435	9,217	10,329	9,879
Carps	12,588	12,277	13,170	13,671	13,555	14,486
Eel	2,803	2,826	3,162	3,124	3,194	2,726
Corbicula	54,689	48,823	40,477	42,681	48,992	56,144
Others	30,076	28,834	28,828	31,917	32,873	32,958
Inland Water Cultures	**33,096**	**36,375**	**41,852**	**51,936**	**52,044**	**48,455**
Trouts	5,745	6,231	7,882	9,454	10,254	10,632
Carps	9,474	11,268	12,508	16,075	15,747	17,256
Eel	16,017	17,015	19,605	23,640	23,276	16,730
Others	1,860	1,861	1,857	2,767	2,767	3,837
Whaling 2)	**26,986**	**22,784**	**21,088**	**21,586**	**17,409**	**16,887**
Blue whale	49	-	-	-	-	-
Fin whale	6,258	2,280	1,307	1,395	2,473	2,416
Humpback whale	43	-	-	-	-	-
Sei whale	12,269	13,829	12,725	11,915	7,641	7,287
Sperm whale	7,331	5,583	6,031	6,861	6,668	6,548
Mink whale	336	365	286	836	287	330
Bottlenose whale	172	171	107	117	138	113
Pilot whale	288	199	237	166	130	152
Others	240	357	395	296	72	41
(Blue Whale Unit)	5,240	3,445	2,774	2,683	2,509	2,442

Note: 1) Excluded whale.
2) Actual number of killed.

4. CATCH IN VALUE BY SPECIES 1965~1970

Unit ; Million yens.

Species	1965	1966	1967	1968	1969	1970
Grand Total 1)	**555,818**	**625,972**	**702,626**	**744,748**	**848,763**	**969,156**
Sea Fisheries 1)	**451,618**	**500,453**	**567,740**	**609,698**	**692,807**	**785,149**
Fishes	**357,692**	**389,112**	**440,734**	**462,416**	**522,601**	**590,280**
Albacore, tunas	62,930	73,423	75,139	78,279	88,331	99,367
Marlins, swordfishes	16,969	16,128	15,939	17,956	19,126	21,464
Skipjack, frigate mackerel	14,488	20,259	19,912	19,812	24,304	31,450
Sharks, rays	3,419	3,427	3,335	2,985	3,306	3,315
Salmons, trouts	36,262	34,396	42,397	35,481	48,251	42,277
Herring	3,919	3,975	5,241	5,098	8,442	11,568
Sardine, round herring	2,305	2,533	3,388	4,536	4,611	5,781
Anchovy	12,469	10,998	12,282	11,958	12,455	14,495
Jack mackerel, scad	20,247	18,968	22,927	21,736	22,842	26,378
Mackerels	21,473	20,555	24,211	32,070	27,498	36,398
Saury	9,572	10,443	10,602	7,779	10,261	12,012
Yellow trails	10,839	11,269	13,106	13,326	15,963	19,542
Flounders, halibut	16,935	21,228	21,668	22,601	27,382	34,558
Cod	4,581	4,382	4,479	5,387	5,712	7,457
Alaska pollack	17,198	19,826	28,507	36,773	46,889	53,778
Atka mackerel	2,617	3,134	2,287	2,322	2,883	2,570
Rock fishes	5,965	6,862	8,596	9,684	9,106	9,206
Croakers	8,065	9,743	9,503	8,114	6,968	6,670
Hairtail	5,433	5,816	4,382	4,696	5,531	4,601
Sea beams	13,102	14,854	16,202	16,720	20,111	22,339
Spanish mackerels	1,595	1,758	1,733	2,923	2,380	3,691
Sand lance	1,938	1,867	1,730	2,514	2,038	4,714
Others	65,371	73,268	93,168	99,666	108,211	116,647
Crustacea	**26,241**	**31,781**	**30,294**	**35,862**	**38,247**	**40,909**
Spiny lobster	1,571	1,616	2,030	2,292	2,412	3,096
"Kuruma" prawn	3,167	3,208	3,096	3,084	3,160	3,124
Other prawns, shrimps	12,247	15,177	11,234	12,370	13,904	15,019
King crab	4,838	6,446	6,764	7,362	5,349	4,769
Queen crab	2,124	2,598	3,842	6,526	9,056	10,465
Other crabs	2,294	2,736	3,328	4,228	4,366	4,436
Mollusca	**51,434**	**62,846**	**72,503**	**91,021**	**108,244**	**124,878**
Common squid	15,597	24,035	22,636	33,811	40,888	48,972
Other squids, cuttlefishes	11,176	12,919	18,420	20,588	28,411	20,593
Octopuses	11,294	9,319	14,160	15,654	12,928	25,369
Abalone	2,341	3,570	3,743	4,684	5,692	6,276
Short necked clams	2,033	2,137	2,435	2,648	3,025	3,604
Common scallop	752	882	871	626	1,833	2,621
"Mogai" clam	1,164	909	1,419	1,465	1,918	1,704
Other clams, shell fishes	7,077	9,075	8,819	11,545	13,549	15,739
Echinodermata, etc.	**3,163**	**3,561**	**4,676**	**5,425**	**7,044**	**9,030**
Marine mammals 1)	**67**	**73**	**48**	**78**	**73**	**117**

Species	1965	1966	1967	1968	1969	1970
Sea weeds	**13,020**	**15,092**	**19,488**	**14,897**	**16,597**	**19,936**
Kelps	5,574	7,786	10,696	8,642	8,669	11,324
"Wakame" seaweed	4,435	2,935	4,508	2,774	3,439	4,672
Others	3,011	4,371	4,284	3,481	4,489	3,940
Sea Cultures	**81,604**	**97,386**	**107,371**	**100,972**	**113,044**	**135,276**
Yellow tail	6,398	6,830	8,454	13,050	15,180	21,157
Pearl	26,555	36,782	30,821	20,396	22,600	20,105
Oyster	5,759	6,477	6,340	8,087	8,149	8,627
"Nori" seaweed	36,731	40,460	54,307	53,315	59,788	74,527
"Wakame" seaweed	683	1,645	3,076	3,246	3,611	6,506
Others	5,478	5,192	4,373	2,878	3,716	4,354
Inland Water Fisheries	**10,049**	**11,753**	**10,879**	**11,942**	**14,419**	**17,019**
Salmons, trouts	829	832	919	670	928	1,092
Sweet fish	3,360	4,409	3,780	4,913	4,514	5,177
Carps	1,764	1,918	1,791	1,821	2,486	2,957
Eel	1,194	1,568	1,499	1,699	2,335	2,990
Corbicula	328	391	324	341	490	674
Others						
Inland Water Cultures	**12,557**	**16,380**	**16,637**	**22,136**	**28,492**	**31,712**
Trouts	982	1,109	1,553	1,881	2,000	2,509
Carps	2,429	2,814	2,522	2,978	4,100	5,074
Eel	8,217	11,349	11,194	15,484	20,483	22,084
Others	929	1,108	1,368	1,793	1,909	2,045
Whaling	**36,610**	**29,520**	**25,227**	**23,672**	**22,107**	**27,195**

Note : 1) Excluded whale

5. CATCH IN QUANTITY BY FISHERY TYPE, 1965~1970

Unit ; Metric tons.

Type of Fisheries	1965	1966	1967	1968	1969	1970
Grand Total 1)	**6,907,569**	**7,102,482**	**7,850,780**	**8,670,133**	**8,613,422**	**9,314,662**
Sea Fisheries 1)	**6,381,629**	**6,557,646**	**7,241,370**	**7,993,048**	**7,975,928**	**8,597,761**
Distant Waters	**1,733,169**	**1,912,336**	**2,402,582**	**2,830,343**	**3,165,260**	**3,429,038**
King crab gill net	24,678	24,851	23,821	59,392	43,465	40,160
Salmon drift gill net	45,430	38,930	42,544	37,642	40,274	36,409
Large trawls 2)	1,089,703	1,276,906	1,839,530	2,266,292	2,594,189	2,883,058
Tuna long lines	441,406	403,370	354,390	341,069	313,270	276,028
Skipjack pole-and-line	131,952	168,279	142,294	125,948	145,767	162,195
Others	-	-	-	-	28,295	31,188
Coastal and Offshore Waters	**4,648,460**	**4,645,310**	**4,838,791**	**5,162,704**	**4,810,668**	**5,168,723**
Medium trawls	574,290	528,531	583,417	572,391	607,918	765,490
Small trawls	252,994	268,839	276,112	268,888	264,674	243,145
Purse seines	1,315,988	1,276,124	1,199,553	1,531,144	1,484,453	1,697,241
Saury stick-held-dip net	226,700	234,739	216,124	126,893	51,364	83,730
Other lift nets	111,162	90,965	94,486	103,714	64,946	87,968
Gill nets	270,380	303,589	363,527	365,414	358,253	384,386
Set nets	221,547	212,744	246,134	220,278	240,694	257,532
Skipjack pole-and-line	62,896	90,375	78,329	70,291	56,588	57,561
Squid angling	386,955	378,502	471,958	649,056	467,491	403,692
Other anglings	236,517	230,538	231,007	224,157	238,415	205,931
Tuna long line	58,381	78,942	74,751	77,937	70,080	65,019
Other long lines	164,918	149,900	164,928	143,567	123,063	121,555
Shellfish collectings	192,437	217,974	182,400	174,104	190,680	231,777
Seaweed collectings	248,118	265,670	313,351	277,955	246,553	208,905
Others	325,173	317,873	342,514	357,916	345,496	354,791
Sea Cultures	**379,696**	**405,195**	**470,137**	**521,941**	**473,293**	**549,082**
Inland Water Fisheries	**113,148**	**103,266**	**97,421**	**103,212**	**112,157**	**119,364**
Inland Water Cultures	**33,096**	**36,375**	**41,852**	**51,932**	**52,044**	**48,455**
Whaling 3)	**26,986**	**22,784**	**21,088**	**21,586**	**17,409**	**16,887**
Antarctic factory ship type	18,259	12,702	9,459	8,443	5,358	5,680
North Pacific factory ship type	5,353	6,474	7,318	7,548	7,178	6,463
Coastal large whale type	7,744	6,790	6,280	5,861	7,125	7,053
Coastal small whale type	1,034	1,092	1,024	818	574	626

Note : 1) Excluded whale.

2) Including value of medium trawls operated on the North Pacific Ocean.

3) Actual number of killed

6. CATCH IN VALUE BY FISHERY TYPE, 1965~1970

Unit ; Hundred million yens.

Type of Fisheries	1965	1966	1967	1968	1969	1970
Grand Total 1)	**5,558**	**6,260**	**7,026**	**7,447**	**8,488**	**9,692**
Sea Fisheries 1)	**4,516**	**5,005**	**5,677**	**6,097**	**6,928**	**7,851**
Distant Waters	**1,671**	**1,860**	**2,193**	**2,381**	**2,702**	**2,969**
King crab gill net	50	58	61	94	85	86
Salmon drift gill net	188	148	164	143	197	174
Large trawls 2)	684	816	1,127	1,273	1,391	1,505
Tuna long lines	618	680	677	723	797	895
Skipjack pole-and-line	131	158	164	148	195	253
Others	-	-	-	-	37	56
Coastal and Offshore Waters	**2,845**	**3,145**	**3,484**	**3,716**	**4,226**	**4,882**
Medium trawls	249	244	247	250	285	345
Small trawls	255	308	329	365	424	465
Purse seines	518	509	597	717	659	819
Saury stick-held-dip net	94	100	97	68	89	104
Other lift nets	42	39	44	48	39	58
Gill nets	338	371	431	451	551	579
Set nets	242	243	295	275	360	417
Skipjack pole-and-line	58	80	87	82	86	92
Squid angling	160	245	234	335	408	484
Other anglings	189	195	223	222	277	303
Tuna long line	96	137	123	137	134	151
Other long lines	176	186	221	198	234	258
Shellfish collectings	81	95	99	106	144	165
Seaweed collectings	129	148	192	147	164	197
Others	219	245	265	315	372	445
Sea Cultures	**816**	**974**	**1,074**	**1,010**	**1,130**	**1,353**
Inland Water Fisheries	**100**	**118**	**109**	**119**	**144**	**170**
Inland Water Cultures	**126**	**164**	**166**	**221**	**285**	**317**
Whaling	**366**	**295**	**252**	**237**	**221**	**272**
Antarctic factory ship type	283	189	151	133	117	148
North Pacific factory ship type	67	84	83	82	80	95
Coastal large whale type	23	20	17	21	22	27
Coastal small whale type	2	2	2	1	2	2

Note : 1) Excluded whale.

2) Including value of medium trawls operated on the North Pacific Ocean.

7. CATCH BY MJTOR SPECIES AND BY SEA FISHERY TYPE, 1965~1970

1. Albacore, tunas

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	**430,290**	**398,330**	**367,324**	**352,887**	**332,749**	**291,017**
By area						
Pacific and Indian Ocean	358,252	286,111	328,259	310,330	299,391	257,917
Atlantic Ocean	72,038	112,219	39,065	42,557	33,358	33,100
By type of fisheries						
Mother ship type tuna long line	58,682	43,045	32,578	42,265	30,778	18,920
Tuna long line, operated on Atlantic Ocean	72,038	40,306	20,432	19,627	12,509	12,190
Tuna long line, based at foreign ports	27,136	28,660	20,470	18,257	12,041	7,041
Tuna long line, based at domestic ports	200,105	231,430	228,155	218,675	219,552	202,548
Skipjack pole and line	51,698	33,646	43,785	27,776	43,059	34,390
Purse seines	14,208	14,804	9,608	16,390	7,757	8,582
Large set net	2,183	1,422	2,899	3,100	2,111	2,720
Others	4,240	5,017	9,397	6,797	4,942	4,626

2. Marlins, sword fishes

Total catch	**90,442**	**81,721**	**73,692**	**70,233**	**68,773**	**66,733**
By area						
Pacific and Indian Ocean	81;185	76,329	70,519	66,110	64,239	61,246
Atlantic Ocean	9,257	5,392	3,173	4,123	4,534	5,487
By type of fisheries						
Tuna long line, mothership type	8,847	7,656	5,968	6,424	4,461	4,247
Tuna long line, operated on Atlantic Ocean	9,257	5,392	1,687	1,384	1,515	1,968
Tuna long line, based at foreign ports	3,193	2,503	1,893	1,288	1,004	1,185
Tuna long line, based at domestic ports	63,657	49,689	60,757	57,543	56,822	55,651
Large set nets	231	344	261	260	275	294
Others	5,257	16,137	3,126	3,334	4,696	3,388

3. Skipjack, frigate markerel

Total catch	**166,802**	**258,816**	**211,202**	**191,439**	**209,378**	**231,901**
By area						
Coastal and offshore waters	23,405	116,646	104,895	85,801	94,101	96,181
Distant waters	143,397	142,170	106,307	105,638	115,277	135,720
By type of fisheries						
Skipjack pole and line	142,208	224,037	175,036	166,550	178,330	200,814
Purse seine, one boat operation	3,952	3,452	5,945	5,333	7,380	4,673
Purse seine, two boat operation	4,209	9,241	7,185	3,243	4,884	5,144
Other anglings	5,459	5,650	3,271	5,569	8,596	8,613
Tuna long lines	1,312	1,555	6,786	1,133	1,362	1,645
Set nets	6,471	10,024	9,732	7,700	6,685	4,649
Others	3,191	4,857	3,247	1,911	2,141	6,363

4. Salmons, tronts

Total catch	**145,662**	**126,629**	**148,419**	**113,790**	**141,309**	**117,896**
By area						
Coastal and offshore waters	100,233	87,699	105,875	76,148	101,035	81,487
Distant waters	45,429	38,930	42,544	37,642	40,274	36,409
By type of fisheries						
Factory ship type salmon drift gill net	45,429	38,930	42,544	37,642	40,274	36,409
Salmon drift gill net	59,440	50,089	57,692	51,237	54,955	45,615
Other long lines	22,172	21,095	28,097	13,394	26,889	13,791
Large set nets	13,179	11,716	13,431	7,254	12,601	16,700
Small set nets	3,379	2,420	3,709	2,362	3,699	3,613
Others	2,063	2,379	2,946	1,901	2,891	1,768

5. Herring

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	**50,169**	**48,617**	**63,672**	**67,920**	**82,240**	**97,374**
By area						
Coastal and offshore waters...	16,442	22,782	30,822	34,419	42,545	64,848
Distant waters	33,727	25,835	32,850	33,501	42,695	32,526
By type of fisheries						
Factory ship type large trawl .	33,686	25,576	31,448	22,773	11,615	9,392
Medium trawls	2,703	2,320	1,867	16,026	6,105	9,628
Large set nets	192	597	21	8	6	10
Small set nets	910	1,930	7,365	321	879	69
Other gill nets	12,364	17,663	21,518	17,731	35,542	55,128
Others	314	531	1,453	11,061	31,093	23,147

6. Anchovy

Total catch	**405,906**	**407,665**	**365,240**	**357,668**	**376,801**	**365,471**
By area						
Coastal and offshore waters...	405,906	407,665	365,240	357,668	376,801	365,471
Distant waters	-	0	-	-	-	-
By type of fisheries						
Purse seine of one-boat operation	37,632	51,168	49,749	80,826	77,467	88,729
Purse seine of two-boat operation	217,398	216,214	186,081	148,113	174,444	153,568
Other surrounding nets	14,620	13,035	11,593	18,788	4,400	2,453
Other lift nets	16,701	14,389	10,609	15,552	12,223	10,356
Set nets	18,025	21,629	25,278	12,431	21,379	19,483
Others	101,530	91,240	81,930	81,958	86,878	90,882

7. Jack mackerel, scod

Total catch	**560,487**	**514,388**	**423,352**	**358,092**	**340,588**	**269,311**
By area						
Coastal and offshore waters...	555,377	514,356	419,516	349,731	327,318	249,995
Distant waters	5,110	32	3,836	8,361	13,270	19,316
By type of fisheries						
Purse seine of one-boat operation	435,845	425,562	300,215	246,049	231,679	169,406
Purse seine of two-boat operation	52,614	44,910	43,098	35,354	39,179	33,899
Other surrounding nets	7,906	5,227	10,585	5,899	6,091	2,317
Other lift nets	24,298	12,566	25,366	23,443	12,584	11,065
Other angling	5,244	3,920	5,342	4,689	4,802	4,482
Set nets	19,822	15,653	25,028	25,372	26,611	22,007
Trawls	3,161	2,552	2,034	10,937	15,276	22,494
Others	11,597	3,998	11,684	6,349	4,366	3,641

8. Mackerels

Total catch	**668,574**	**624,423**	**687,474**	**1,015,279**	**1,011,406**	**1,301,918**
By area						
Coastal and offshore waters...	668,399	624,369	687,014	1,014,652	1,010,951	1,301,020
Distant waters	175	54	460	627	455	898
By type of fisheries						
Mackerel pole and line	134,716	138,269	137,752	132,848	126,213	96,658
Purse seine of one-boat operation	272,057	180,013	215,524	383,773	545,285	773,146
Purse seine of two-boat operation	181,516	219,984	265,854	428,312	279,411	344,879
Other surrounding nets	2,091	2,483	2,395	3,035	2,559	2,879
Other lift nets	23,178	24,911	17,632	17,365	11,370	19,019
Others	55,016	58,763	48,317	49,946	46,568	65,337

9. Saury

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	**231,377**	**241,840**	**220,087**	**140,204**	**63,288**	**93,129**
By area						
Coastal and offshore waters...	231,377	241,840	320,087	140,204	63,288	93,119
Distant waters	-	-	-	-	-	10
By type of fisheries						
Saury stick-held dip net	226,683	234,623	216,100	126,821	51,259	83,683
Other gill nets	2,317	5,331	1,707	5,839	7,987	7,310
Surrounding nets	419	426	736	6,067	704	311
Set nets	1,612	538	1,495	1,380	3,204	1,671
Others	346	922	46	97	134	154

10. Yellow tails

Total catch	**43,819**	**38,950**	**48,623**	**48,363**	**51,125**	**54,875**
By area						
Coastal and offshore waters...	43,785	38,950	48,623	48,168	51,118	54,865
Distant waters	34	-	-	195	7	10
By type of fisheries						
Large set nets	18,377	16,530	18,285	14,456	17,824	16,473
Small set nets	2,304	2,137	2,791	3,061	3,525	4,328
Purse seines	4,481	5,324	10,065	8,550	9,729	8,758
Other anglings	12,562	9,802	12,144	14,956	13,396	17,567
Others	6,095	5,157	5,338	7,340	6,651	7,749

11. Flounders, halibut

Total catch	**216,266**	**272,969**	**299,708**	**261,017**	**296,367**	**295,410**
By area						
Coastal and offshore waters...	119,912	147,909	137,201	134,640	117,308	120,722
Distant waters	96,354	125,060	162,507	126,377	179,059	174,688
By type of fisheries						
Factory ship type large trawl .	57,792	97,368	110,085	70,734	113,600	101,748
Large trawl, in Bering Sea ...	19,142	27,084	35,704	37,044	45,407	55,830
Large trawl, west of 130°E in East China Sea	19,031	18,664	16,112	16,052	18,312	15,545
Medium trawls	68,735	72,658	76,994	67,628	53,106	52,012
Small trawls	21,276	25,062	25,341	26,358	26,174	26,629
Other gillnets	19,513	21,149	25,250	29,247	28,172	31,768
Others	10,777	10,984	10,222	13,954	11,596	11,878

12. Cod

Total catch	**90,088**	**85,849**	**96,070**	**109,470**	**103,780**	**117,119**
By area						
Coastal and offshore waters...	50,478	50,624	45,003	38,430	33,392	28,418
Distant waters	39,610	35,225	51,067	71,040	70,388	88,701
By type of fisheries						
Factory ship type large trawl .	20,717	20,622	32,415	42,157	39,439	48,403
Large trawls	18,893	14,603	18,652	28,883	29,507	40,165
Medium trawls	13,167	17,388	18,252	15,773	14,379	10,558
Small trawls	1,102	1,923	1,901	1,176	1,353	1,003
Other gill nets	4,277	4,443	4,538	3,875	3,617	3,383
Other long lines	30,705	25,615	19,433	16,759	13,201	12,326
Others	1,227	1,255	879	847	2,284	1,281

13. Alaska pollack

Unit : Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	**690,895**	**774,788**	**1,247,003**	**1,606,025**	**1,944,320**	**2,346,710**
By area						
Coastal and offshore waters...	373,300	346,221	432,512	372,631	396,198	417,358
Distant waters	317,595	428,567	814,491	1,233,394	1,548,122	1,929,352
By type of fisheries						
Factory ship type large trawl .	230,082	273,891	561,779	686,235	677,730	1,030,825
Large trawls	87,513	154,676	252,712	547,159	870,379	898,133
Medium trawls	268,743	226,662	257,652	202,407	248,317	251,446
Small trawls	768	1,030	930	1,340	1,865	2,023
Other gill nets	67,524	89,926	140,480	147,735	131,967	146,167
Other long lines	35,357	28,241	32,220	20,914	13,687	17,158
Others	908	362	1,230	235	375	958

14. Crorkers

Total catch	**100,722**	**98,381**	**84,620**	**70,980**	**70,137**	**64,311**
By area						
Coastal and offshore waters...	3,282	3,294	3,801	3,217	3,136	4,369
Distant waters	97,440	95,087	80,819	67,763	63,001	59,942
By type of fisheries						
Large trawl, on distant waters	764	758	316	269	228	8
Large trawl, west of 130°E in East China Sea	96,676	94,349	80,502	67,494	62,773	59,934
Medium trawls	664	596	385	364	255	197
Small trawls	1,061	1,133	1,663	1,314	1,238	1,184
Others	1,557	1,545	1,754	1,539	1,643	2,988

15. Sea breams

Total catch	**40,105**	**39,149**	**40,539**	**37,782**	**38,137**	**38,329**
By area						
Coastal and offshore waters...	32,471	29,963	33,081	32,249	27,254	26,123
Distant waters	7,634	9,186	7,458	5,533	10,883	12,206
By type of fisheries						
Large trawl, on distant waters	3,252	3,076	2,154	804	4,503	6,233
Large trawl, west of 130°E in East China Sea	4,382	6,110	5,299	4,727	3,921	3,883
Medium trawls	2,734	2,572	3,861	3,157	2,372	2,125
Small trawls	2,025	2,060	2,630	2,067	2,403	2,153
Other anglings and long lines .	17,322	15,865	17,307	15,720	11,442	10,964
Set nets	2,344	1,842	1,810	2,419	2,044	2,242
Others	8,036	7,624	7,478	8,888	11,452	10,729

16. Shrimps, prawns, lobster

Total catch	**67,863**	**70,385**	**62,181**	**67,703**	**59,485**	**55,637**
By area						
Coastal and offshore waters...	52,243	62,071	55,287	49,265	45,434	43,560
Distant waters	15,620	8,314	6,894	18,438	14,051	12,077
By type of fisheries						
Factory shiptype large trawl ..	8,860	3,127	3,287	8,754	4,412	1,950
Large trawl, in Bering sea ..	49	11	1,299	5,696	5,094	2,541
Large trawls, west of 130°E in East China Sea	6,126	4,710	1,869	3,003	3,496	2,955
Medium trawls	7,255	8,753	5,908	6,778	8,323	5,528
Small trawls	34,626	39,656	33,277	28,242	27,169	27,430
Other surrounding nets	4,138	5,858	9,374	7,659	3,398	3,966
Others	6,809	8,270	7,167	7,571	7,593	11,267

17. Crabs

Unit ; Metric tons.

	1965	1966	1967	1968	1969	1970
Total catch	**63,568**	**71,580**	**86,115**	**117,737**	**93,268**	**89,872**
By area						
Coastal and offshore waters...	38,442	46,613	60,699	58,253	47,843	47,033
Distant waters	25,126	24,967	25,416	59,484	45,425	42,839
By type of fisheries						
Factory ship type kingcrab gill net	24,678	24,851	23,821	59,392	43,465	40,160
Medium trawls	12,576	9,595	9,125	10,504	10,637	12,047
Small trawls	3,869	3,877	4,906	5,822	4,862	5,296
Other gill nets	4,251	7,113	9,143	8,696	6,098	3,763
Others	18,194	26,144	39,120	33,323	28,206	28,606

18. Squids, cuttlefishes

Total catch	**499,367**	**485,027**	**596,848**	**773,777**	**589,798**	**518,917**
By area						
Coastal and offshore waters...	441,589	430,311	532,443	716,217	531,519	464,363
Distant waters	57,778	54,716	64,405	57,560	58,279	54,554
By type of fisheries						
Squid anglings	386,463	377,918	471,464	648,859	467,156	403,292
Large trawls, on distant waters	38,637	33,089	44,191	37,466	40,825	35,086
Large trawls, west of 130°E in East China Sea	19,141	21,625	20,214	20,093	17,451	19,295
Medium trawls	10,099	8,736	11,405	13,635	13,198	14,888
Small trawls	7,008	7,411	7,416	6,360	7,766	8,461
Large set nets	16,295	14,462	16,101	13,929	11,931	13,941
Small set nets	12,191	11,734	13,698	19,162	17,021	11,799
Others	9,533	10,052	12,359	14,273	14,450	12,155

19. Octopuses

Total catch	**78,057**	**65,551**	**98,130**	**12,718**	**92,418**	**96,127**
By area						
Coastal and offshore waters...	44,661	42,953	42,911	37,899	40,118	45,212
Distant waters	33,396	22,598	55,219	64,819	52,300	50,915
By type of fisheries						
Large trawls	33,350	22,586	55,178	64,791	52,213	50,853
Medium trawls	4,922	3,870	3,692	3,973	4,111	4,112
Small trawls	6,821	6,394	8,295	7,560	8,618	9,122
Other anglings	4,334	3,867	3,859	2,939	2,910	2,471
Other long lines	11,375	10,260	9,030	7,529	6,568	9,335
Others	17,255	18,574	18,076	15,926	17,998	20,234

8. CATCH BY OCEAN, AND BY FISHERY TYPE, 1965~1970

Unit ; Metric tons.

Type	1965	1966	1967	1968	1969	1970
GRAND TOTAL	**6,907,569**	**7,102,482**	**7,850,780**	**8,670,133**	**8,613,422**	**9,314,662**
Inland waters	146,244	139,641	139,273	155,144	164,201	167,819
Fisheries	113,148	103,266	97,421	103,212	112,157	119,364
Inland water cultures	33,096	36,375	41,852	51,932	52,044	48,455
Pacific Ocean	6,364,724	6,603,770	7,264,988	8,071,146	8,050,414	8,808,750
Fisheries						
Mother ship type large trawl	432,096	539,202	778,411	843,606	862,442	1,199,121
Large trawl	520,848	559,247	781,131	1,154,609	1,476,616	1,457,493
Medium trawl	574,290	528,531	583,417	572,391	607,918	765,490
Small trawl	252,995	268,839	276,112	258,888	264,674	243,145
Purse seine	1,275,835	1,234,729	1,152,833	1,479,408	1,484,453	1,697,241
Mother ship type salmon drift gill net	45,430	38,930	42,544	37,642	40,274	36,409
Salmon drift gill net	59,730	50,476	58,043	51,596	55,381	45,615
Mother ship type king crab gill net	24,678	24,851	23,821	59,392	43,465	40,160
Other gill nets	210,650	252,758	304,412	313,818	302,872	365,216
Saury stick-held dip net	226,700	234,739	216,124	126,893	51,364	83,730
Set nets	221,546	212,746	246,134	220,278	240,694	257,532
Mother ship type tuna long line	5,014	503	2,402	1,818	3,019	5,380
Tuna long line	263,240	307,673	267,836	253,118	246,045	247,165
Skipjack pole-and-line	194,848	252,073	213,110	184,539	192,965	225,002
Squid angling	386,955	378,502	471,958	649,056	467,491	403,692
Other anglings	236,517	230,402	230,818	224,157	238,415	189,061
Shellfish collecting	192,437	217,975	182,400	174,104	190,680	231,777
Seaweed collecting	248,118	265,670	313,351	277,955	246,553	208,905
Others	613,101	600,729	649,994	664,937	561,800	557,534
Sea Cultures	379,696	405,195	470,137	521,941	473,293	549,082
Indian Ocean	91,051	87,405	131,354	130,129	109,155	71,605
Large trawl	395	11	13,153	11,959	13,453	11,893
Mother ship type tuna long line	11,807	15,482	21,252	26,231	14,241	8,794
Tuna long line	78,846	71,912	96,940	91,940	81,461	50,918
Others	3	-	10	-	-	-
Atlantic Ocean	305,652	271,766	315,262	313,714	289,652	266,488
Large trawl	164,772	178,445	266,835	256,115	241,678	214,551
Mother ship type tuna long line	54,850	38,309	18,257	23,348	20,411	10,542
Tuna long line	86,030	48,432	22,654	22,551	18,173	29,771
Others	-	6,579	7,515	11,700	9,390	11,624

9. NUMBER OF FISHING ESTABLISHMENTS, 1965~1970

Unit ; Number.

Strata	1965	1966	1967	1968	1969	1970
GRAND TOTAL	**223,664**	**224,043**	**227,547**	**228,758**	**232,219**	**228,215**
Fisheries using non-powered vessels	32,372	26,275	22,576	20,083	15,512	12,877
Fisheries using powered vessels						
Less than 3 tons	91,363	93,791	96,463	99,220	103,705	102,051
3 - 5 tons	14,827	15,865	16,952	20,739	20,601	20,816
5 - 10 tons	5,616	5,881	6,129	6,173	7,007	7,051
10 - 30 tons	4,811	4,939	5,078	4,970	5,216	5,186
30 - 100 tons	2,603	2,674	2,747	2,629	2,729	2,717
100 - 200 tons	613	620	646	620	663	691
200 - 500 tons	525	528	538	541	563	587
500 - 1,000 tons	219	220	248	243	267	263
1,000 tons and over	123	140	141	154	156	169
Large set nets	911	889	872	711	827	847
Small set nets	6,605	6,494	6,377	5,074	5,577	5,701
Beach seine	1,120	1,001	919	1,069	904	811
Laver culture	44,908	45,091	46,932	47,767	48,487	48,585
Oyster culture	4,168	3,893	3,699	3,299	3,658	3,484
Pearl culture	4,049	4,282	4,277	3,642	3,675	3,380
Other culture	8,831	11,460	12,953	11,824	12,672	12,999

Note; 1. Excluding fishing establishments without fishing vessel.
2. Excluding fishing establishments which engaged less than 30 days in a year.

10. NUMBER OF FISHING VESSELS, 1965~1970

Size	1965	1966	1967	1968	1969	1970
Marine						
Non-powered	163,988	153,025	139,283	126,709	116,945	104,957
Powered	217,156	226,045	239,083	248,791	253,573	265,652
Less than 5 G.T.	191,463	200,278	213,029	222,956	227,599	239,412
5 - 9 G.T.	8,181	8,204	8,448	8,464	8,632	8,923
10 - 49 G.T.	12,183	12,084	12,013	11,598	11,358	11,085
50 - 99 G.T.	3,510	3,447	3,353	3,292	3,339	3,444
100 - 199 G.T.	742	891	971	1,091	1,149	1,212
200 - 499 G.T.	824	867	953	1,063	1,172	1,251
500 - 999 G.T.	97	106	128	126	119	117
1,000 G.T. and over	156	168	188	201	205	208
Fresh Water						
Non-powered	16,143	17,887	14,933	17,026	15,658	15,643
Powered	4,348	4,219	4,703	4,753	5,214	5,537
Less than 5 G.T.	4,342	4,212	4,700	4,750	5,211	5,532
5 G.T. and over	6	7	3	3	3	5

11. GROSS TONNAGES OF FISHING VESSELS, 1965～1970

Size	1965	1966	1967	1968	1969	1970
Marine						
Non-powered	136,652	121,440	106,831	92,118	80,781	72,520
Powered	2,054,127	2,128,738	2,255,279	2,308,973	2,362,389	2,443,725
Less than 5 G.T.	336,870	350,808	370,666	384,660	391,305	409,216
5 - 9 G.T.	61,023	61,604	63,699	64,131	65,517	68,082
10 - 49 G.T.	284,761	286,436	282,145	271,044	261,403	252,433
50 - 99 G.T.	286,258	282,462	276,337	268,909	272,671	278,707
100 - 199 G.T.	110,368	134,265	148,667	166,354	174,593	182,826
200 - 499 G.T.	258,624	273,184	304,473	340,242	373,464	403,768
500 - 999 G.T.	71,165	78,613	95,519	95,012	90,549	89,542
1,000 G.T. and over	645,058	661,366	713,772	718,621	732,887	759,152
Fresh water						
Non-powered	8,023	8,927	7,354	8,172	7,882	8,202
Powered	5,543	5,519	6,048	6,157	6,646	6,870
Less than 5 G.T.	5,491	5,461	6,020	6,129	6,618	6,822
5 G.T. and over	52	58	28	28	28	48

12. MARINE FISHERY WORKERS, 1965～1970

Unit ; 1,000 persons.

	1965	1966	1967	1968	1969	1970
Grand total	612.0	607.4	592.8	593.8	572.1	549.4
Men	502.5	495.7	485.5	486.2	458.8	437.9
15 - 39 years old	254.2	246.1	236.1	236.7	215.7	202.7
40 - 59 years old	175.8	176.5	177.6	178.7	172.8	167.3
60 years old and over	72.2	72.8	71.6	70.7	70.4	67.9
Women	109.5	111.6	107.3	107.7	113.3	111.5

13. PROCESSED FISHERY PRODUCTS, 1965～1970

Unit; Thousand metric tons. Canned; Thousand cases.

Processed products 1)	1965	1966	1967	1968	1969	1970
Boiled and dried	100.8	82.7	88.9	101.6	80.8	83.3
Anchovies	69 9	56.3	58.8	68.8	58.1	58.0
Jack mackerel	-	-	6.5	8.4	6.2	6.4
Sand lance	9.3	4.5	6.3	8.3	4.4	4.4
Others	21.5	21.9	17.2	16.1	12.1	14.5
Cured	79.9	83.4	82 0	89.2	93.5	98.4
Mackerels	11.7	11.0	9.5	13.9	14.5	20.8
Skipjack	20.3	22.3	20 0	20.5	21.3	21.8
Others	47.9	50.1	52.4	54.8	57.7	55.8
Dried	40.9	38.5	45.2	48.6	38.0	41.9
Herring	3 9	5.3	9 6	10.8	13.4	17.5
Squids	27 4	21 3	25 1	27 0	14 5	11 1
Others	9 6	11.9	10.5	10.8	10.1	13.2
Frozen	1,799 3	1,825 7	2,021 5	2,355 7	2,207 4	2,434 2
Albacore, tuna	305.0	379.3	253.0	267.8	250.0	196.2
Cod, Alaska pollack	26.3	22 0	23.1	46.2	69.1	42.4
Halibut, flounders	39.0	60.8	60.3	50.1	63.7	88.5
Marckerels	194.2	173.4	176.4	299.9	242.1	386.9
Marlins	66.6	59.0	52.9	53.8	52.2	52.8
Sardines, anchovies	58.1	87.5	87.1	92.2	108.3	89.7
Saury	163.5	168.4	156.6	102.9	50.4	76.6
Skipjack	18.8	34.0	27.9	24.7	35.8	45.2
Squids, cuttlefishes	212.6	197.5	296.3	386.1	285.9	254.4
Whales	199.9	167.4	156.7	139.5	120.3	118.7
Minced fish meat	30.5	47.6	99.1	153.8	220.4	268.4
Others	484.8	428.8	632.1	738.7	708.6	814.4
Kneaded	797 2	895 1	911 9	999 4	1,077 2	1,081 3
"Chikuwa" 2)	121.8	157.6	171.7	194.0	204.3	221.5
Fish sausage	188.1	176.0	164.4	161.8	168.8	169.5
"Kamaboko" 3)	245.1	270.2	294.8	336.4	368.0	356.4
Others	242.2	291.3	280.9	307.2	336.1	333.9
Manure and feed	432.8	450.9	511.7	639.5	740.1	802.0
Fish meal	225.5	225 9	265.2	309.7	368.8	404.4
Dried press cake	112.5	130.3	140.6	171.7	209.4	250.7
Others	94.8	94.7	106.0	158.0	162.0	146.9
Oil and fat	175.4	124.8	124.3	134.7	145.0	176.9
Fish oil	23.4	22.6	24.1	37.8	50.8	86.5
Fish visceral oil	13 7	13 7	18 3	15 6	21 7	17 9
Whale oil	138.4	88.5	81.9	80.9	72.2	72.3
Others	0.0	0.0	0.0	0.4	0.3	0.2
Salted	153.9	167.3	156.9	184.0	206.2	180.2
Alaska pollack roe, cod roe	11.6	14.3	18.6	24.7	28.9	33.2
Cod, Alaska pollack	16.4	11.6	14.6	12.8	12.9	11.1
Herring roe, salmon roe	1.0	1.6	3.9	2.4	3.3	5.0
Mackerels	42.0	53.2	43.5	71.8	52.9	53.8
Salmons	25.0	31.0	24.4	30.4	30.1	42.0
Trouts	28.6	22.5	26.6	25.5	49.9	14.9
Others	29.3	33.1	25.3	16.4	28.2	20.2

Unit ; Thousand metric tons. Canned; Thousand cases.

Processed products	1965	1966	1967	1968	1969	1970
Salted and dried	122.1	121.1	125.2	134.8	159.6	144.5
Jack mackerel	29.6	29.0	34.9	37.5	43.3	39.2
Mackerels	17.6	14.2	13.3	21.1	24.7	25.9
Sardines, anchovies	24.5	29.6	26.8	26.8	42.6	22.6
Saury	18.4	15.9	13.8	10.1	4.3	4.6
Others	32.0	32.4	36.4	39.4	44.8	52.2
Smoked	8.5	6.4	9.0	12.3	9.2	7.6
Salmons, trouts	0.6	0.5	0.3	0.4	0.6	0.7
Squids, cuttlefishes	2.0	1.3	2.5	4.9	0.7	0.5
Whale meat	-	-	3.6	4.9	5.4	3.8
Others	5.9	4.6	2.5	2.1	2.6	2.6
Others	159.0	197.1	233.2	230.2	246.5	251.3
Canned 4) Standard cases 5)	12,173	12,755	14,470	14,706	14,116	16,210
Actual cases	26,252	27,333	31,243	30,743	30,864	32,192
Shellfishes	656	842	1,022	915	817	836
Crabs	285	318	369	362	314	319
Jack mackerel	682	821	462	233	14	0
Mackerel	2,904	3,793	4,999	7,663	6,473	8,358
Prawns, shrimps	54	31	29	48	6	9
Salmons, trouts	1,728	1,491	1,709	814	1,151	1,077
Sardines, anchovies	183	251	169	54	150	47
Saury	1,050	578	501	508	284	235
Squids, cuttlefishes	418	194	453	307	327	274
Tunas, skipjack	2,410	2,944	3,264	2,634	3,358	4,150
Whale	1,193	950	986	761	655	622
Others	610	542	502	407	567	283

Note : 1) Excluding Dried seaweeds.

2) Baked products of kneaded fish meat with seasonings.

3) Steamed products of kneaded fish meat with seasonings.

4) Surveyed by the Canners Association of Japan.

5) Converted to 450 g x 48 cans in net weight for one case.

14. VALUE OF IMPORTS AND EXPORTS BY COMMODITY, 1960~1970

Imports

Year	Living animals	Fresh and frozen			Salted, dried and smoked	Raw agar-agar	Fish meals
		Shrimps	Whale meats	Others			
1960	---	235	-	706	501	406	800
1961	---	2,509	-	523	579	679	963
1962	---	2,221	907	1,517	826	590	1,812
1963	---	8,449	760	2,143	1,427	643	3,984
1964	1,027	11,317	1,644	5,163	2,638	502	4,919
1965	535	12,938	1,332	7,244	3,592	562	5,897
1966	931	21,631	1,691	9,765	5,143	1,923	6,657
1967	1,305	28,704	2,688	11,060	6,155	2,562	4,867
1968	1,752	28,108	758	14,023	7,690	816	7,278
1969	2,745	43,829	880	19,005	7,033	896	5,919
1970	5,851	49,329	1,374	26,394	12,478	772	6,689

Exports

Year	Frozen			Salted and dried	Canned		
	Tunas	Marlins	Others		Jack mackerel, mackerel	Salmons	Saury
1960	14,526		4,066	2,099	---	20,653	2,083
1961	16,481		4,004	2,021	---	13,354	787
1962	22,289		6,791	2,036	---	32,843	2,026
1963	16,907	1,731	7,507	2,039	3,696	16,322	3,059
1964	20,425	1,895	9,025	2,302	5,746	15,309	3,289
1965	18,853	2,420	10,707	2,202	4,951	21,945	1,202
1966	29,402	2,416	10,724	2,892	8,495	13,766	1,817
1967	16,331	1,700	11,820	2,880	10,180	16,680	688
1968	14,783	2,976	14,895	3,212	14,502	21,000	312
1969	9,887	2,732	18,342	4,354	15,294	13,713	112
1970	11,433	2,550	21,573	4,248	19,605	16,181	407

Unit ; Million yens.

Pearls	Oil and fat	Prepared	Dried seaweeds	Shells	Others	Total
---	---	---	562	1,229	---	**5,523**
---	---	---	293	750	---	**8,173**
457	114	218	428	691	910	**10,693**
419	64	388	432	1,055	1,623	**21,386**
621	64	373	1,889	767	1,342	**32,266**
905	69	1,281	0	1,589	1,478	**37,422**
1,248	400	2,240	3,474	3,531	1,698	**60,332**
794	297	2,184	3,924	1,893	2,534	**68,966**
1,448	424	1,532	5,953	837	1,515	**72,135**
1,496	558	1,808	6,441	1,172	2,060	**93,843**
1,474	229	3,561	3,099	1,401	1,977	**114,628**

Unit ; Million yens.

			Oil and fat				
Tuna	Crabs	Others	Whale Oil	Others	Pearls	Others	Total
9,136	4,198	5,785	6,912	1,607	10,973	2,179	**84,216**
10,704	4,268	6,536	7,697	1,214	12,883	2,352	**82,301**
11,912	3,891	5,934	5,423	978	15,063	3,479	**112,666**
12,674	3,948	4,338	9,111	472	17,024	2,926	**101,755**
13,536	4,635	3,717	7,970	466	19,828	3,843	**111,987**
12,859	4,531	3,647	7,296	234	23,118	5,030	**118,997**
17,121	3,876	4,687	4,406	250	23,291	7,193	**130,338**
18,544	3,716	4,894	2,942	356	19,813	6,866	**117,411**
19,776	5,446	4,410	1,027	343	16,849	6,685	**126,217**
23,683	5,534	4,977	1,497	328	17,510	6,919	**124,881**
28,862	2,929	5,557	2,597	1,307	14,725	8,744	**140,718**

15. VALUE OF IMPORTS AND EXPORTS BY COUNTRY, 1960~1970

Imports

Year	Australia	Canada	Chile	China (Mainland)	Hong Kong	Mexico	Peru
1960	87	44	103	278	128	35	636
1961	126	70	215	495	386	1,730	911
1962	255	139	147	1,158	566	728	1,266
1963	779	223	102	2,597	1,909	2,792	2,895
1964	1,126	286	180	5,778	1,383	3,464	4,005
1965	1,192	411	759	6,559	2,101	3,734	2,959
1966	1,781	715	823	11,501	2,800	4,333	4,265
1967	2,069	985	1,178	7,029	3,112	7,326	1,850
1968	2,486	1,466	283	5,664	3,959	5,437	4,803
1969	5,225	1,224	594	6,842	5,349	5,786	3,858
1970	5,779	2,158	372	11,309	3,819	7,355	4,911

Exports

Year	Australia	Canada	Hong Kong	Italy	Nether-lands	Philip-pines	Puerto Rico
1960	1,776	1,420	1,644	2,201	3,143	1,991	719
1961	2,188	1,493	1,787	3,179	6,326	857	84
1962	1,948	1,956	2,007	4,829	2,887	770	1,699
1963	1,949	1,695	2,373	5,970	5,836	2,941	2,900
1964	2,676	1,851	4,112	5,124	3,930	4,197	5,300
1965	3,393	2,207	2,313	6,064	4,166	3,348	4,890
1966	3,123	2,512	3,313	9,692	4,006	4,753	7,199
1967	3,068	2,456	2,606	6,212	4,482	7,064	4,060
1968	3,341	2,152	2,852	5,385	2,603	7,108	3,189
1969	4,009	2,721	4,048	4,452	3,145	5,752	2,326
1970	3,522	3,932	4,123	5,851	4,982	5,800	3,116

Unit ; Million yens.

Republic of Korea	Ryukyu Island	Spain	Thailand	U. S. A.	U.S.S.R.	Others	Total
1,651	435	-	6	1,259	-	861	**5,523**
1,330	289	0	14	699	-	1,908	**8,173**
2,678	319	5	34	529	53	2,855	**10,693**
2,998	701	428	427	1,243	237	4,055	**21,386**
5,729	443	1,-004	1,098	2,136	979	4,658	**32,266**
5,758	464	2,074	1,404	2,573	1,544	5,891	**37,422**
10,049	1,270	2,562	2,703	6,263	2,260	9,006	**60,332**
11,669	2,016	1,812	3,844	5,286	2,839	17,950	**68,966**
11,550	2,794	1,111	4,195	6,235	2,278	19,875	**72,135**
12,262	2,842	1,049	5,825	9,180	2,791	31,016	**93,843**
14,203	4,400	2,519	5,651	8,699	2,158	41,295	**114,628**

Unit ; Million yens.

Republic of Germany	Ryukyu Island	Spain	Switzer-land	United Kingdom	U. S. A.	Others	Total
4,372	1,172	---	2,127	19,753	27,022	16,876	**84,216**
3,822	1,314	---	2,448	10,984	30,976	16,843	**82,301**
4,350	1,184	103	3,399	33,379	38,507	15,648	**112,666**
4,839	1,365	521	3,985	17,618	31,662	18,102	**101,755**
6,764	1,708	288	3,856	16,548	32,479	23,155	**111,987**
9,770	2,175	1,197	4,508	22,660	32,140	20,169	**118,997**
8,209	2,569	1,496	4,909	14,840	42,349	21,727	**130,338**
7,068	2,760	1,027	4,849	17,550	33,094	21,109	**117,411**
7,575	2,841	1,397	3,896	21,372	37,166	29,374	**126,217**
8,215	3,731	1,322	4,320	13,323	37,390	30,127	**124,881**
9,082	4,027	1,832	3,736	16,835	41,952	31,929	**140,718**

16. VALUE OF IMPORTS AND EXPORTS OF (by Country, and by Commodity)

A. Imports

Origin	Living animals	Frozen		Salted, dried and smoked	Oil and fat
		Shrimps	Others		
Total	**5,851**	**49,329**	**27,768**	**12,478**	**229**
Ryukyu Islands	114	42	3,788	39	1
Republic of Korea	1,274	258	5,710	1,746	18
North Korea	-	92	304	70	-
China (Main land)	165	6,941	1,188	2,460	-
China (Taiwan)	3,170	1,698	3,283	71	5
Hong Kong	385	3,327	72	1	1
Thailand	98	5,048	288	85	-
Malaysia	0	2,326	349	44	-
Indonesia	51	3,168	3	354	-
Philippines	38	315	9	-	1
India	-	5,288	1	3	-
Pakistan	-	1,950	0	-	-
Iceland	-	-	83	-	6
Norway	-	-	44	41	50
Denmark	-	0	0	3	-
Spain	-	-	2,493	1	23
U.S.S.R.	-	303	1,013	548	29
Canada	4	-	410	1,427	-
U.S.A.	132	632	1,731	5,521	67
Mexico	-	7,186	0	-	-
Peru	1	-	244	-	0
Chile	-	-	-	-	-
Argentina	-	-	40	-	-
Canary Island (Spain)	-	-	1,747	-	-
South West Africa	-	-	-	-	-
South Africa	-	-	170	-	-
Australia	-	4,054	428	-	-
New Hebrides (U.K., France)	-	-	241	0	-
Samoa (U.S.A.)	-	-	81	24	-
The Mariana, The Marshall, The Caroline Isls.	-	-	174	-	-
Others	419	6,701	3,874	41	29

FISHERY PRODUCTS, 1970

Unit ; Million yens

Prepared	Pearls	Fish meals	Shells	Dried sea weeds (Laver)	Raw agar-agar	Others	Total
3,561	**1,474**	**6,689**	**1,401**	**3,099**	**772**	**1,977**	**114,628**
126	14	1	10	-	4	261	4,400
1,411	-	-	4	3,099	-	683	14,203
5	-	-	-	-	-	-	471
547	-	-	-	-	-	8	11,309
366	-	7	13	-	-	80	8,693
17	10	4	1	-	-	1	3,819
50	75	-	6	-	-	1	5,651
6	11	-	27	-	-	3	2,766
1	4	-	192	-	13	5	3,791
7	86	-	359	-	3	27	845
12	6	-	6	-	-	2	5,318
-	-	-	-	-	-	-	1,950
0	-	-	-	-	-	-	89
72	-	-	-	-	-	25	232
32	0	-	-	-	-	-	35
1	-	-	-	-	-	-	2,519
291	-	692	-	-	-	2	2,878
6	-	-	-	-	-	-	1,846
125	3	-	468	-	-	20	8,699
78	-	-	84	-	1	6	7,355
-	-	4,666	-	-	-	-	4,911
1	-	-	-	-	370	2	372
-	-	-	-	-	267	87	394
-	-	-	-	-	-	-	1,747
54	-	833	-	-	-	1	888
1	-	89	0	-	81	18	359
201	1,050	-	36	-	-	10	5,779
-	-	-	-	-	-	1	242
-	-	-	-	-	-	-	105
-	-	-	15	-	-	-	188
151	215	397	180	-	34	734	12,774

B. Export

Destination	Frozen			Salted, dried and smoked	Canned		
	Tunas	Marlins	Others		Jack Mackerel Mackerels	Salmons	Saury
Total	**11,433**	**2,550**	**21,573**	**4,248**	**19,605**	**16,181**	**41**
Ryukyu Islands	-	53	1,349	966	172	5	20
Republic of Korea ..	-	-	-	3	13	-	-
Hong Kong	14	0	12	1,786	89	2	3
South Vietnam	-	-	25	30	225	-	-
Malaysia	32	-	280	15	565	-	-
Singapore	-	-	116	432	740	4	-
Philippines	-	-	1	1	5,517	9	-
India	-	-	-	-	-	1	-
Lebanon	-	-	57	1	57	1	-
Sweden	7	-	44	0	13	21	-
United Kingdom	0	0	1,724	6	195	11,807	-
Netherland	5	-	601	1	195	973	-
Belgium	-	-	123	1	338	499	-
France	-	-	139	3	44	498	-
Republic of Germany	0	1	834	9	793	22	-
Switzerland	-	-	0	0	8	22	-
Spain	155	-	761	0	-	-	-
Italy	2,234	1	2,724	0	26	61	-
U.S.S.R.	-	-	-	0	-	-	-
Greece	-	-	154	-	264	11	-
Canada	-	22	181	24	33	4	-
U.S.A.	5,070	2,438	4,548	680	2,236	32	-
Puerto Rico	3,105	-	-	-	-	-	-
Liberia	-	-	193	-	42	-	-
Ghana	153	5	424	0	1,930	35	-
Australia	3	-	1,269	5	46	1,544	-
Territory of New Guinea ...	-	-	-	-	968	1	-
Canary Islands (Spain)	44	-	1,310	0	3	0	-
Fiji Islands (U.K.)..	374	5	172	0	278	-	-
Samoa (U.S.A.)	195	9	652	-	41	-	-
Others	40	20	3,880	284	4,776	627	17

Unit ; Million yens.

Oil and fat							
Tunas	Crabs	Others	Whale oil	Others	Pearls	Others	Total
28,862	**2,929**	**5,557**	**2,597**	**1,307**	**14,725**	**9,110**	**140,718**
507	24	429	-	3	64	435	**4,027**
-	-	-	435	235	2	199	**887**
9	10	172	-	2	1,912	112	**4,123**
-	-	-	-	-	0	100	**380**
-	0	124	-	-	-	60	**1,076**
1	21	190	-	-	142	233	**1,879**
14	-	153	-	1	-	104	**5,800**
4	1	0	-	-	426	10	**442**
243	9	2	-	-	424	0	**795**
132	113	2	-	-	53	38	**423**
1,594	178	33	-	18	145	1,135	**16,835**
660	135	11	1,890	339	81	91	**4,982**
702	188	31	-	-	96	92	**2,070**
327	510	21	7	6	332	126	**2,013**
3,862	28	68	-	40	3,260	165	**9,082**
1,162	1	28	-	-	2,496	19	**3,736**
-	-	378	-	1	535	2	**1,832**
96	10	138	-	0	194	367	**5,851**
-	-	-	-	-	-	336	**336**
44	39	5	-	-	5	4	**526**
2,384	17	856	-	29	144	238	**3,932**
15,476	1,372	2,532	264	581	3,376	3,347	**41,952**
2	-	-	-	-	4	5	**3,116**
2	-	-	-	-	-	-	**237**
8	0	-	-	-	-	-	**2,556**
36	135	195	-	1	189	99	**3,522**
-	1	3	-	-	0	-	**972**
-	3	5	-	-	32	-	**1,398**
-	4	-	-	-	3	0	**836**
-	-	1	-	-	-	-	**900**
1,600	130	177	2	50	812	1,790	**14,205**

17. FOOD BALANCE SHEET ON FISHERY PRODUCTS, 1965~1970

Unit ; Thousand metric tons.

Description	1965	1966	1967	1968	1969	1970
〔FISH AND SHELLFISH〕 (live weight base)						
Domestic production						
For domestic consumption	5,822	5,899	6,588	7,353	7,385	7,879
Fresh and frozen	1,870	1,756	1,922	2,083	1,920	2,015
Dried, salted and smoked ..	1,316	1,264	1,298	1,417	1,489	1,400
Kneaded	1,364	1,604	1,733	1,877	1,935	2,320
Fish sausage	269	252	235	231	241	242
Canned	110	118	164	96	94	78
Feeds	893	906	1,236	1,649	1,706	1,824
For exports	680	767	729	811	783	908
Fresh and frozen	260	266	208	208	162	190
Canned	339	401	443	519	504	588
Others for food use	19	25	22	20	21	13
Feeds	62	75	56	64	96	117
Total	**6,502**	**6,666**	**7,317**	**8,164**	**8,168**	**8,787**
Imports						
For food use	119	170	191	212	236	294
For feeds	536	455	413	715	514	451
Total	**655**	**625**	**604**	**927**	**750**	**745**
Domestic supply						
For food use	5,048	5,163	5,543	5,916	5,915	6,349
Domestic production	4,929	4,993	5,352	5,704	5,679	6,055
Imports	119	170	191	212	236	294
For feeds	1,429	1,361	1,649	2,364	2,220	2,275
Domestic production	893	906	1,236	1,649	1,706	1,824
Imports	536	455	413	715	514	451
Total	**6,477**	**6,524**	**7,192**	**8,280**	**8,135**	**8,624**
〔WHALE〕						
Domestic production						
For domestic consumption	184	176	150	136	136	138
For exports	34	9	21	20	20	15
Total	**218**	**185**	**171**	**156**	**156**	**153**
Imports						
Total	**19**	**21**	**29**	**11**	**13**	**15**
Domestic supply						
For food use	203	176	150	136	136	138
For feeds	-	21	29	11	13	15
Total	**203**	**197**	**179**	**147**	**149**	**153**

(Continued)

Unit ; Thousand metric tons.

Description	1965	1966	1967	1968	1969	1970
〔SEAWEED〕 (dried weight base)						
Domestic production						
For domestic consumption	80	92	103	97	86	99
For exports	1	2	2	3	3	5
**Total	**81**	**94**	**105**	**101**	**89**	**104**
Imports						
**Total	**12**	**21**	**18**	**14**	**15**	**15**
Domestic supply						
For food use	70	81	105	90	77	96
For feeds	22	32	16	22	24	18
**Total	**92**	**113**	**121**	**112**	**101**	**114**
Per capita food supply (Unit; Kgs)						
Fish and shellfishes	51.4	52.1	55.3	58.3	57.6	61.2
Whales	2.1	1.8	1.5	1.3	1.1	1.3
Seaweeds	0.7	0.8	1.0	0.9	0.8	0.9

18. AVERAGE CONSUMPTION IN QUANTITY OF FISHERY PRODUCTS PER HOUSEHOLD, 1965~1970

A). Workers household (Cities With population of 50,000 or over)

Unit ; grams

Item	1965	1966	1967	1968	1969	1970
Net income	-	-	-	-	-	-
Food expense	---	---	---	---	---	---
Fishery products	---	---	---	---	---	---
Fresh and frozen	---	---	---	---	---	---
Cod, Alaska pollack	1,258	1,231	1,211	1,248	1,208	1,208
Flounders, halibuts	3,228	3,220	3,569	3,427	3,827	2,817
Jack mackerel	7,697	6,879	5,591	5,196	4,957	4,177
Mackerel	6,096	5,577	5,613	5,243	4,879	4,431
Salmons, trouts	2,088	2,087	1,999	1,452	1,257	1,625
Sardines, anchovies	1,564	1,547	1,344	1,436	1,425	1,268
Saury	1,786	2,767	1,730	1,336	604	1,044
Sea breams	1,857	1,751	1,841	1,657	1,393	1,425
Shellfishes	5,331	5,581	5,008	5,092	5,080	4,935
Skipjack	736	1,096	943	808	771	775
Squids, cuttlefishes	7,388	8,190	8,343	8,245	7,581	7,646
Tunas, marlins	2,895	2,720	3,038	3,265	3,204	3,199
Yellowtail	1,501	1,495	1,659	1,829	1,835	1,978
Others	---	---	---	---	---	---
Processed fishery products	---	---	---	---	---	---
Boiled and dried	1,240	1,074	977	946	931	897
Canned (case)	12.54	11.43	11.64	12.14	11.08	8.89
Cured	845	821	778	769	742	716
Dried laver	---	---	---	---	---	---
Dried "Kombu" and "Wakame" kelp	1,548	1,615	1,637	1,671	1,586	1,724
Dried squids	290	279	280	293	303	274
Fish sausage	3,981	3,682	3,131	2,949	2,892	2,469
Kneaded	---	---	---	---	---	---
Salted salmons and trouts	1,698	1,783	1,814	2,312	2,447	3,019
Others	---	---	---	---	---	---
Whale meat	2,866	2,455	2,199	2,051	1,794	1,557
Beef	9,631	7,736	6,844	6,438	7,012	7,551
Pork	9,834	12,538	14,435	13,938	13,309	14,754
Chicken	5,160	6,072	6,928	7,324	8,265	9,040
Ham, sausage	5,844	6,285	6,520	6,863	7,154	7,552
Milk, eggs	---	---	---	---	---	---
Seasonings	672	730	782	853	840	873
Expence for dining out	---	---	---	---	---	---
Number of family member	4.24	4.17	4.13	4.05	3.97	3.95

B). Farm Household

Unit ; grams

Item	1965	1966	1967	1968	1969	1970
Net income	-	-	-	-	-	-
Food expense	---	---	---	---	---	---
Fishery products	---	---	---	---	---	---
Fresh and frozen	---	---	---	---	---	---
Cod, Alaska pollack	2,120	2,260	2,740	2,660	2,320	3,330
Flounders, halibuts	2,940	3,180	3,450	3,510	3,180	3,650
Jack mackerel	12,160	10,410	7,590	7,330	7,410	6,460
Mackerel	14,810	14,290	15,820	14,800	15,920	14,700
Salmons, trouts	---	---	---	---	---	---
Sardines, anchovies	2,390	2,390	2,160	2,480	2,580	2,510
Saury	4,390	5,960	3,910	2,690	1,450	2,090
Sea breams	820	900	1,040	990	1,150	1,270
Shellfishes	2,340	2,170	3,270	3,830	3,990	5,150
Skipjack	2,220	3,350	3,410	3,210	3,560	3,280
Squids, cuttlefishes	8,280	8,580	10,760	10,920	10,110	8,910
Tunas, marlins	2,380	2,300	2,650	2,680	3,300	3,860
Yellow tail	620	700	930	1,000	1,260	1,880
Others	---	---	---	---	---	---
Processed fishery products	---	---	---	---	---	---
Boiled and dried	3,910	3,500	3,420	3,240	3,100	3,450
Canned	5,880	5,240	5,570	5,540	5,010	4,890
Cured	270	240	300	260	260	310
Dried laver	---	---	---	---	---	---
Dried "Kombu" and "Wakame" kelp	1,440	1,490	1,780	2,350	2,630	2,370
Dried squids	490	450	530	520	540	500
Fish sausage	5,710	5,900	6,010	5,970	5,740	5,390
Kneaded	7,930	8,960	9,610	10,290	12,530	13,220
Salted salmons and trouts	2,260	2,270	2,670	2,590	2,700	3,590
Others	---	---	---	---	---	---
Whale meat	3,600	3,010	2,870	2,750	2,650	2,170
Beef	2,510	2,070	2,060	2,260	2,780	3,160
Pork	3,550	5,520	6,950	6,550	7,490	9,660
Chicken	4,000	4,120	4,930	5,740	7,080	7,960
Ham, sausage	1,540	2,010	2,360	2,560	3,020	3,500
Milk, eggs	---	---	---	---	---	---
Seasonings	520	630	780	970	1,030	1,040
Expense for dining out	---	---	---	---	---	---
Number of family member	5.19	5.06	4.97	5.01	4.92	4.84

19. AVERAGE CONSUMPTION IN VALUE OF FISHERY PRODUCTS PER HOUSEHOLD, 1965～1970

A). Workers household (Cities With population of 50,000 or over)

Unit ; yens

Item	1965	1966	1967	1968	1969	1970
Net income	821,028	904,464	991,800	1,081,584	1,206,396	1,384,548
Food expense	248,484	262,807	282,835	300,451	323,899	361,499
Fishery products	34,112	36,247	39,521	42,949	45,863	53,207
Fresh and frozen	17,230	18,425	20,062	21,270	22,940	27,485
Cod, Alaska pollack	225	265	275	306	328	375
Flounders, halibuts	822	895	929	969	1,096	1,281
Jack mackerel	1,076	1,026	1,111	1,186	1,309	1,439
Mackerel	912	860	928	918	870	915
Salmons, trouts	1,082	1,141	1,182	853	779	1,047
Sardines, anchovies	235	244	244	301	345	379
Saury	339	479	383	391	266	555
Sea beams	837	856	904	933	933	1,079
Shellfishes	948	1,012	1,003	1,192	1,355	1,528
Skipjack	275	385	394	392	438	525
Squids, cuttlefishes	1,435	1,619	1,811	1,937	2,028	2,530
Tunas, marlins	1,747	1,786	2,161	2,543	2,750	3,158
Yellowtail	809	893	1,031	1,216	1,395	1,754
Others	6,458	6,964	7,706	8,133	9,048	10,920
Processed fishery products	16,169	17,120	18,759	20,989	22,211	24,936
Boiled and dried	451	399	405	417	417	481
Canned	943	926	1,027	1,014	1,084	1,021
Cured	623	531	531	583	611	681
Dried laner	2,103	2,262	2,436	2,636	2,784	3,325
Dried "Kombu" and "Wakame" kelp	775	880	961	1,012	1,051	1,300
Dried squids	*159	165	187	195	220	260
Fish sausage	1,041	981	836	788	785	679
Kneaded	1,622	1,619	1,724	1,866	1,984	2,183
Salted salmons and trouts	934	1,033	1,202	1,707	2,025	2,525
Others	7,518	8,324	9,450	10,771	11,250	12,481
Whale meat	713	702	700	690	712	786
Beef	7,222	7,009	7,053	7,289	8,274	9,275
Pork	6,502	8,003	9,423	10,355	11,196	12,203
Chicken	3,100	3,754	4,255	4,664	5,341	5,909
Ham, sausage	3,506	3,834	4,075	4,416	4,801	5,531
Milk, eggs	20,333	21,872	23,157	24,242	25,589	26,413
Seasonings	1,116	1,175	1,255	1,350	1,303	1,323
Expence for dining out	19,805	21,565	25,054	28,895	34,084	39,115
Number of family member	4.24	4.17	4.13	4.05	3.97	3.95

B) . Farm household

Unit ; yens

Item	1965	1966	1967	1968	1969	1970
Net income	760,800	861,400	1,029,700	1,125,700	1,250,000	1,393,200
Food expense	234,200	252,700	282,600	302,000	326,600	353,500
Fishery products	27,225	29,880	34,210	37,996	41,727	47,211
Fresh and frozen	12,819	14,497	16,840	19,324	20,779	23,289
Cod, Alaska pollack	322	345	428	446	429	599
Flounders, halibuts	568	651	721	794	837	1,154
Jack mackerel	1,360	1,306	1,123	1,274	1,347	1,478
Mackerel	1,843	1,870	2,152	2,163	2,204	2,395
Salmons, trouts	---	---	---	---	---	---
Sardines, anchovies	305	318	313	417	469	557
Saury	562	792	580	489	347	576
Sea beams	321	361	462	466	592	742
Shellfishes	243	257	324	375	487	629
Skipjack	500	712	799	821	1,041	1,082
Squids, cuttlefishes	1,234	1,359	1,726	1,879	2,061	2,397
Tunas, marlins	1,187	1,297	1,605	1,865	2,469	2,878
Yellowtail	283	362	479	554	776	1,289
Others	4,091	4,867	6,128	7,781	7,720	7,513
Processed fishery products	13,647	14,670	16,627	17,919	20,206	23,127
Boiled and dried	1,118	1,060	1,088	1,102	1,223	1,458
Canned	1,119	1,073	1,145	1,210	1,102	1,080
Cured	212	214	239	252	323	345
Dried lanver	1,075	1,253	1,424	1,556	1,953	2,322
Dried "Kombu" and "Wakame" kelp	482	543	606	594	683	1,507
Dried squids	221	236	286	312	344	379
Fish sausage	1,381	1,476	1,504	1,501	1,526	1,509
Kneaded	1,534	1,793	2,017	2,293	2,733	3,224
Salted salmons and trouts	1,009	1,068	1,340	1,455	1,637	2,239
Others	5,496	5,954	6,978	7,896	8,682	9,064
Whale meat	759	713	743	753	742	795
Beef	1,882	1,785	1,952	2,297	2,842	3,467
Pork	2,062	3,046	4,021	4,362	5,142	6,260
Chicken	1,376	1,611	1,959	2,452	3,137	3,675
Ham, sausage	844	990	1,242	1,504	1,784	2,221
Milk, eggs	14,004	15,341	17,773	18,890	22,960	24,038
Seasonings	715	835	1,033	1,274	1,308	1,430
Expence for dining out	9,739	11,300	12,897	14,773	16,873	19,515
Number of family member	5.19	5.06	4.97	5.01	4.92	4.84

Reference Table 1. CATCH BY COUNTRY OF THE WORLD, 1965~1970

Unit ; thousand tons.

Country Names	1965	1966	1967	1968	1969	1970
Total	53,700	57,500	61,100	64,300	62,900	69,300
Peru	7,632	8,845	10,199	10,556	9,244	12,613
Japan	6,908	7,104	7,852	8,670	8,613	9,315
U.S.S.R.	5,100	5,350	5,780	6,080	6,500	7,250
Norway	2,307	2,865	3,250	2,804	2,481	2,980
U.S.A.	2,669	2,523	2,411	2,437	2,464	2,714
India	1,331	1,367	1,400	1,526	1,605	1,746
Thailand	615	708	847	1,089	1,270	1,595
South Africa	1,235	1,197	1,598	2,023	1,875	1,519
Spain	1,341	1,363	1,442	1,515	1,496	1,497
Canada	1,262	1,346	1,296	1,499	1,405	1,378
Indonesia	1,067	1,202	1,180	1,159	1,214	1,249
Denmark	841	851	1,070	1,467	1,276	1,227
Chile	709	1,384	1,053	1,376	1,077	1,161
United Kingdom	1,047	1,069	1,026	1,040	1,083	1,099
Philippines	686	726	769	945	978	990
Republic of Korea	640	701	749	841	879	934
France	768	805	820	803	771	775
Iceland	1,199	1,240	898	601	690	734
China (Taiwan)	382	425	458	531	561	613
Republic of Germany ...	633	657	662	682	652	613
Others	15,328	15,772	16,340	16,656	16,766	17,298

Note; We guess it more than 5 million tons to catch of fishery in China (mainland).

Reference Table 2. CATCH BY SPECIES OF THE WORLD, 1965~1970

Unit ; thousand tons.

Species	1965	1966	1967	1968	1969	1970
Grand Total	53,700	57,500	61,100	64,300	62,900	69,300
Fishes	48,690	52,380	55,590	58,370	57,270	63,370
Albacore, tunas, marlins	850	888	907	1,015	1,052	1,020
Skipjack, frigate mackerel	414	503	538	450	491	521
Sharks, rays	321	339	369	361	402	403
Salmons, trouts	880	1,170	1,080	1,180	1,400	2,090
Herring	4,600	4,611	4,295	3,734	2,885	2,804
Sardine, round herring	3,440	3,344	3,456	4,021	4,050	3,930
Anchovy	8,809	10,776	11,813	12,542	11,028	14,419
Jackmackerel, scad	1,405	1,309	1,277	1,196	1,303	1,594
Mackerels	1,301	1,601	2,251	2,633	2,733	2,787
Saury	307	327	296	222	130	165
Yellow tails	62	59	75	85	87	90
Flounders, halibut	940	1,090	1,200	1,140	1,250	1,240
Cod	5,292	5,608	6,067	6,885	6,801	6,658
Alaska pollack	1,458	1,682	2,163	2,565	2,999	3,662
Atka mackerel	115	111	86	112	133	174
Rock fishes	945	788	655	570	543	511
Croakers	345	353	348	400	342	339
Sea beams	294	324	386	354	278	273
Sand lance	254	254	317	356	228	426
Milk fishes	590	640	630	640	640	790
Carps	250	270	290	280	280	310
Others	15,778	16,292	17,047	17,577	18,165	19,120
Clams, shellfishes	1,757	1,819	1,842	1,929	1,860	1,840
Other aquatic animals	2,610	2,616	2,877	3,161	3,003	3,150
Squid, cuttlefishes, Octopuses	854	832	951	1,179	947	876
Prawns, shrimps	839	870	940	979	1,021	1,136
Crabs	327	366	368	426	398	397
Echinodermata, mammals, etc.	594	556	620	580	647	752
Aquatic plants	652	691	831	841	762	873

APPENDIX 1. CLASSIFICATION OF SEA FISHERY TYPE

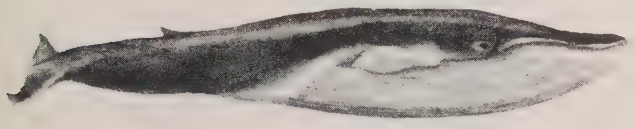
Classification	Classification shown in this bulletin	Classification published by Ministry of Agriculture and Forestry.
Gill nets	King crab gill net	Factory ship type king crab gill net
	Salmon drift gill net	Factory ship type salmon drift gill net (Distant waters)
	Gill nets	Salmon drift gill net of one boat operation, (Coastal)
		Sardine drift gill net. Herring gill net. and other.
Purse seines	Purse seines	Purse seine of one-boat and two-boats operation.
		Semi-surrounding net.
		Other surrounding nets.
Lift nets	Saury stick-held dip net	Saury stick-held dip net
	Other lift nets	Atka mackerel square lift net
		Other lift nets
Trawls	Large trawls	Factory ship type trawl (Bering sea)
		Factory ship type trawl (Okhotsk sea)
		Otter trawl on Distant waters
		Otter trawl in Bering sea
		Otter trawl, west of 130°E in East China Sea
		Large trawl, west of 130°E in East China Sea
	Medium trawls	Medium trawl of one-boat and two boats operation.
	Small trawls	Small trawls
Set nets	Set nets	Large set nets
		Small set nets
Anglings	Skipjack pole-and-line	Skipjack pole-and-line (Distant waters and Coastal)
	Squid angling	Squid angling
	Other anglings	Mackerel pole-and-line, other kind of mackerel anglings and other anglings.
Long lines	Tuna long line	Mother ship type tuna long line
		Tuna long line operated on Atlantic Ocean.
		Tuna long line based at foreign ports.
		Tuna long line based at domestic ports.
	Other long lines	Alaska pollack long line, Salmon long line and other.
Collectings	Shellfish collectings	Shellfish collectings.
	Seaweed collectings	Seaweed collectings.
Other fisheries	Others	Beach seine, "Patchi" and other haul seine, Dart, other fisheries.

Illustration of Important Fishes in Japan

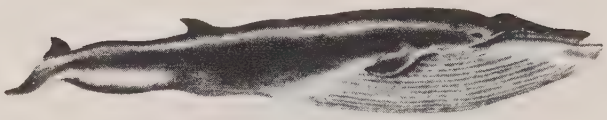
I Sea Water Fisheries

A Marine Mammals

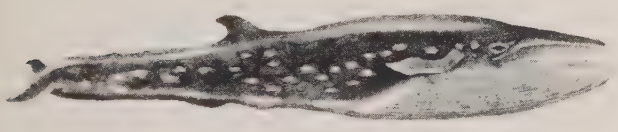
Blue whale (English name)
Shironagasukujira (Japanese name)
Balaenoptera musculus (Scientific name)



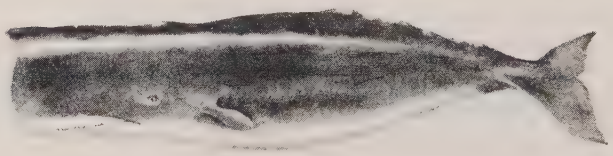
Fin whale
Nagasukujira
Balaenoptera physalus



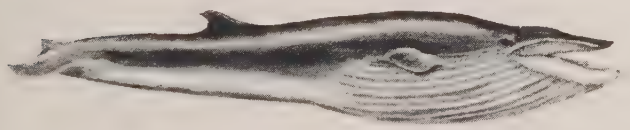
Sei whale
Iwashikujira
Balaenoptera borealis



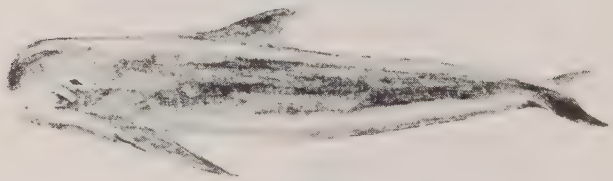
Sperm whale
Makkokujira
Physeter catodon



Mink whale
Koiwashikujira
Balaenoptera acutoro strata

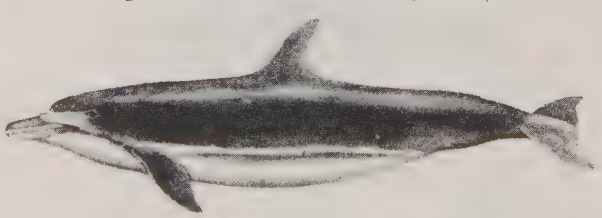


Pilot whale
Gondokujira
Globicephala melacna

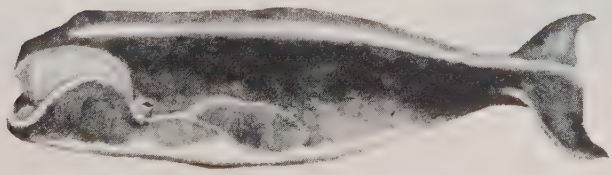


Killer Whale
Shachikujira
Orcinus orca

(Dolphin)
Mairuka
Delphinus delphis delphis



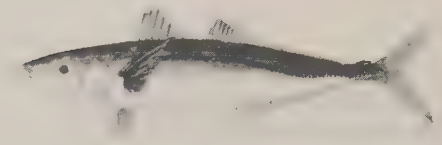
Right whale
Semikujira
Balaena mysticetus



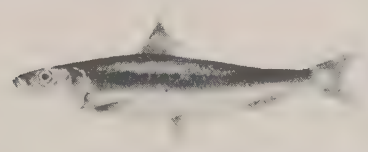
B Fishes

Herring
Nishin
Clupea pallasi

Scad
Muroaji
Decapterus Muroadsi



Sardine
Maiwashi
Sardinops melanosticta



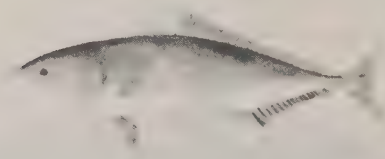
Mackerel
Masaba
Scomber japonicus

Round herring
Urumeiwashi
Etrumeus micropus

Saury (Saury-pike)
Sanma
Cololabis saira

Anchovy
Katakuchiiwashi
Engraulis japonica

Yellowtail
Buri
Seriola quinqueradiata

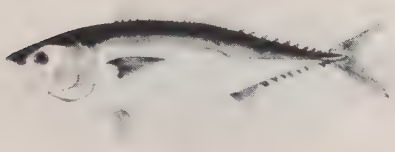


Jack mackerel
Maaji
Trachurus japonicus

Skipjack
Katsuo
Katsuwonus pelamis

Frigate mackerel
Hirasoda
Auxis thazard

Bluefin tuna
Maguro
Thunnus thynnus orientalis

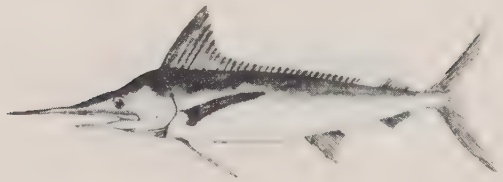


Albacore
Binnaga
Thunnus alalunga

Bigeye tuna
Mebachi
Thunnus obesus

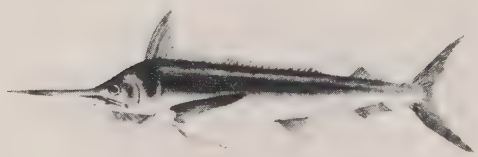
Yellowfin tuna
Kiwada
Thunnus albacares

Striped marlin
Makajiki
Tetrapturus audax

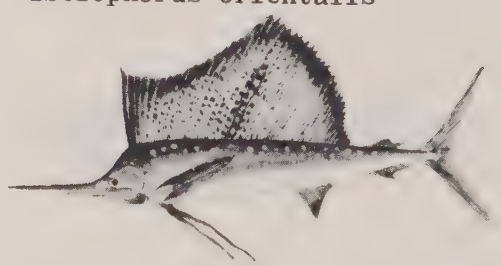


Broadbill swordfish
Mekajiki
Xiphias gladius

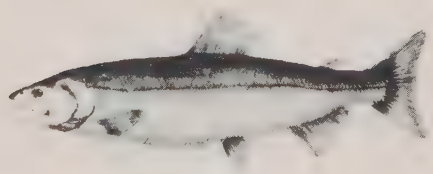
Blue marlin
Kurokajiki
Makaira nigricans



Sailfish
Bashokajiki
Istiophorus orientalis

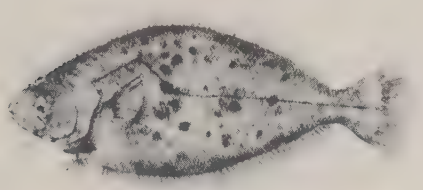


Chum salmon
Sake (Shirozake)
Oncorhynchus keta

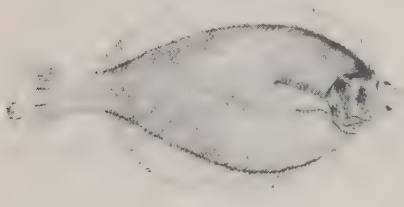


Cherry salmon
Sakuramasu
Oncorhynchus masou var. masou

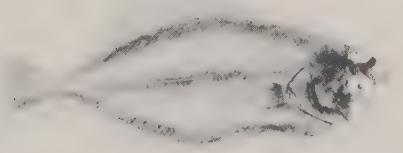
Bastard halibut
Hirame
Paralichthys olivaceus



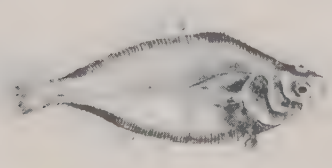
Dab (Flat fish)
Magarei
Limanda herzensteini



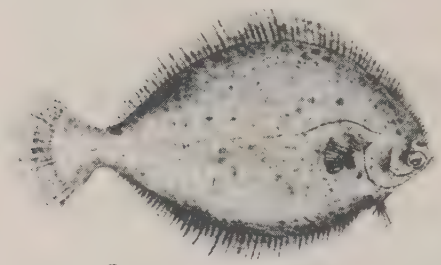
Arrow toothed halibut
Aburagarei
Atheresthes evermanni



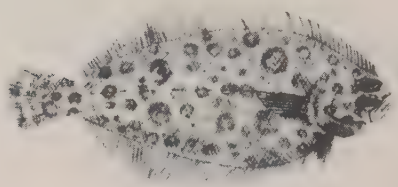
(Flat fish)
Sohachigarei
Cleisthenes pinetorum herzensteini



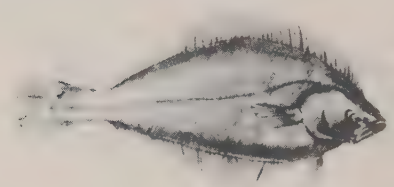
Frog flounder
Meitagarei
Pleuronichthys cornutus



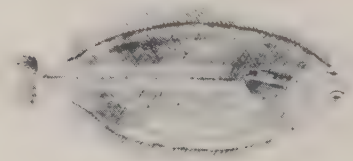
Roundnose flounder
Mushigarei
Eopsetta grigorjewi



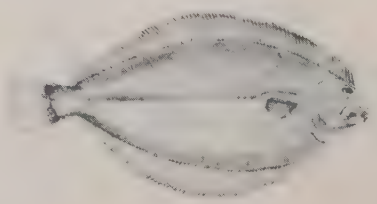
Flathead flounder
Akagarei
Hippoglossoides dubius



Slime flounder
Babagarei
Microstomus achne

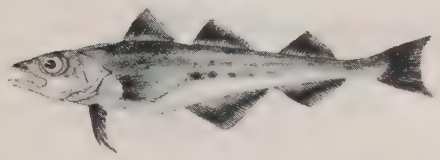


Fluke
Hireguro
Glyptocephalus stelleri

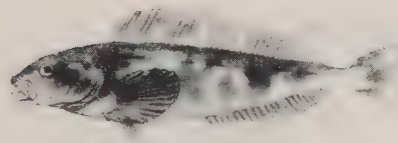


Cod
Madara
Gadus macrocephalus

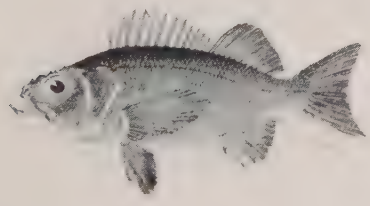
Alaska pollack
Suketodara
Theragra chalcogramma



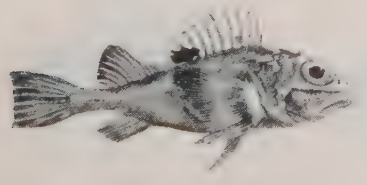
Atka mackerel
Hokke
Pleurogrammus azonus



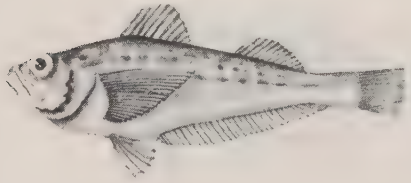
(Rock fish)
Sankomenuke
Sebastes flameus



(Rock fish)
Kichiji
Sebastolobus macrochir



Sand fish
Hatahata
Arctoscopus japonicus



Deep sea smelt
Nigisu
Algentina semifasciata

Great blue shark
Yoshikirizame
Glyphis glaucus

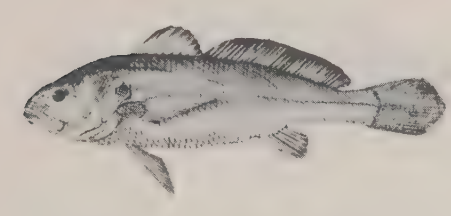
Salmon shark
Nezumizame
Lamna ditropis

Dog fish
Aburatsunozame
Squalus acanthias

White croaker
Shiroguchi
Argyrosomus argentatus

Yellow croaker
Kiguchi
Pseudosciaena manchurica

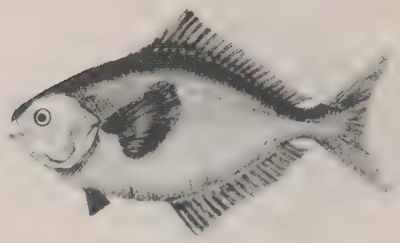
Black croaker
Kuroguchi
Argyrosomus nibe



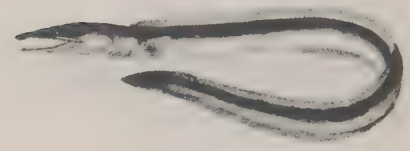
(Croaker)
Honnibe
Miichthys imbricatus

Lizard fish
Maeso
Saurida argyrophanes

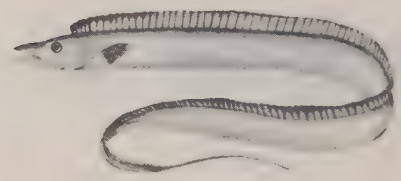
Butter fish
Ibodai
Psenopsis anomala



Sharp toothed eel
Hamo
Muraenesox cinereus

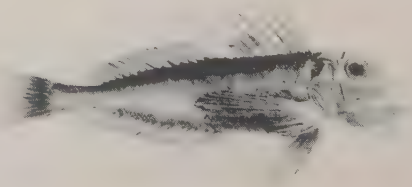


Hairtail
Tachiuo
Trichiurus lepturus

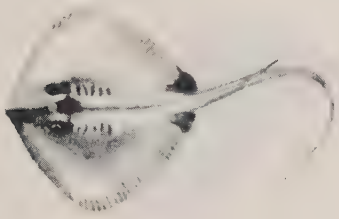


(Gurnard)
Hobo
Chelidonichthys kumu

(Gurnard)
Kanagashira
Lepidotrigla microptera



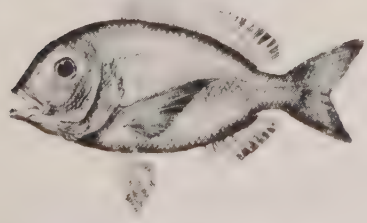
Stingray
Akaei
Dasyatis akajei



Red sea bream
Madai
Chrysophrys major

Crimson sea bream
Chidai
Evynnis japonica

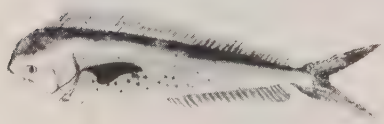
Yellow sea bream
Kidai
Taius tumifrons



Black sea bream
Kurodai
Mylio macrocephalus

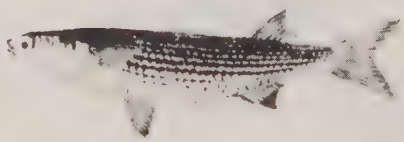
Spanish mackerel
Sawara
Scomberomorus niphonius

Dolphin fish
Shiira
Coryphaena hippurus



Flyingfish
Tobiuo
Prognichthys agoo

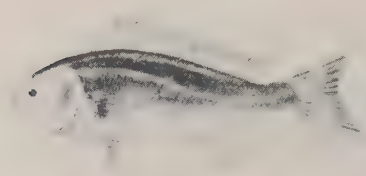
Mullet
Bora
Mugil cephalus



Common sea bass
Suzuki
Lateolabrax japonicus

Sand lance
Ikanago
Ammodytes personatus

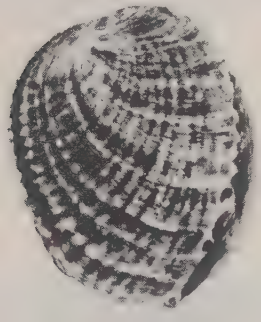
Striped pigfish
Isaki
Parapristipoma trilineatum



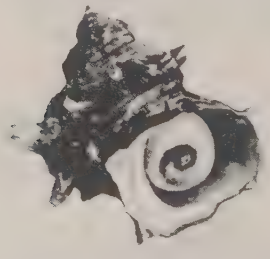
(Globe fish)
Torafugu
Fugu rubripes

C Shellfishes

Abalone
Awabi
Haliotis gigantea

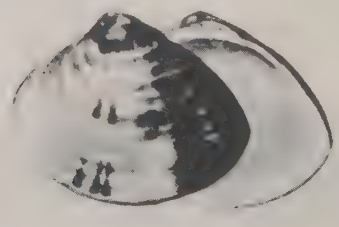


Top shell
Sazae
Turbo cornutus

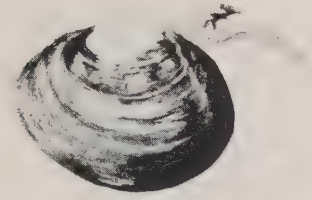


Short necked clam
Asari
Venerupis Philippinarum

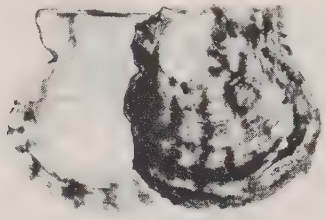
Hard clam
Hamaguri
Meretrix lusoria



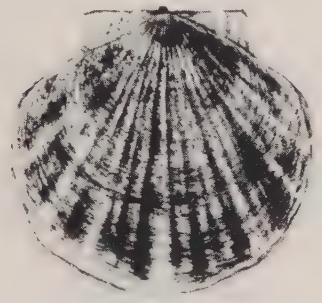
Hen clam
Hokkigai
Mactra sachalinensis



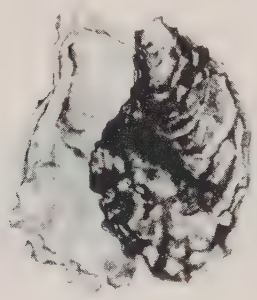
(Pearl Oyster)
Akoyagai
Pinctada martensii



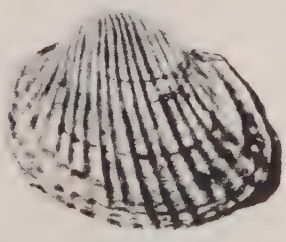
Common scallop
Hotategai
Pecton yessoensis



(Oyster)
Magaki
Crassostrea gigas



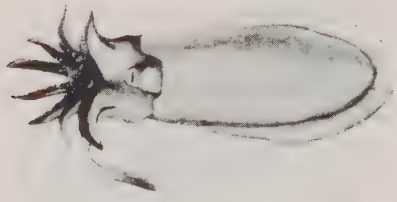
"Mogai" clam
Sarubo
Anadara subcrenata



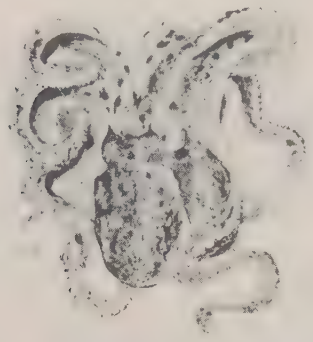
D Other Marine Animals

Common squid
Surumeika
Ommastrephes sloani pacificus

Cuttlefish
Maika
Sepiella maindronide

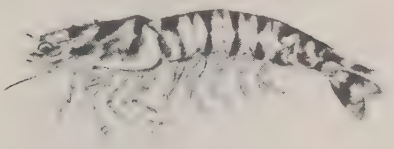


Octopus (Devilfish)
Madako
Octopus vulgaris



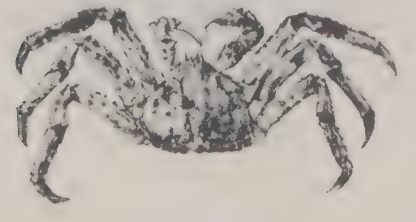
Spiny lobster
Iseebi
Panulirus japonicus

(Prawn)
Kurumaebi
Penaeus japonicus

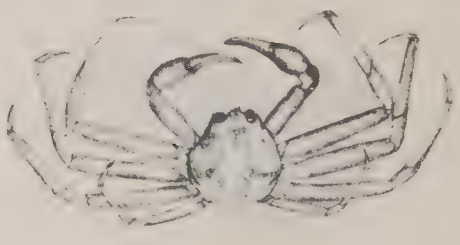


(Shrimp)
Akaebi
Metapenaeopsis barbatus

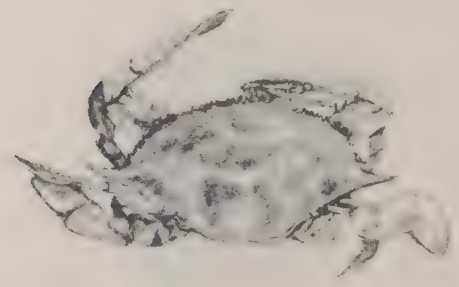
King crab
Tarabagani
Paralithodes camtschaticus



Queen crab, Tanner crab
Zuwaigani
Chionoecetes opilio

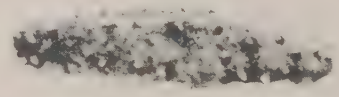


Blue crab
Gazami
Neptunus trituberculatus



(Sea urchin)
Murasakiuni
Heliocidaris crassispind

(Sea cucumber)
Manamako
Stichopus japonicus

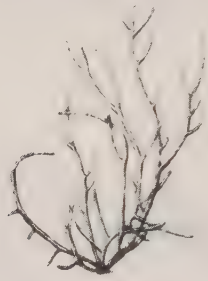


(Jelly fish)
Bizenkurage
Rhopilema esculenta

E Seaweeds

(Kelp)
Makonbu
Laminaria japonica

(Seaweed)
Honfunori
Gloiopeltis tenax



(Seaweed)
Wakame
Undaria pinnatifida

(Seaweed)
Arame (Kajime)
Eisenia bicyclis

Agar-agar
Tengusa (Makusa)
Gelidium Amansii

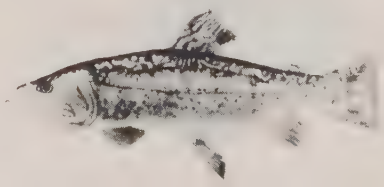
Laver (Seaweed"Nori")
Asakusanori
Porphyra tenera

II Inland Water Fisheries

A Fishes

Rainbow trout
Nijimasu
Salmo gairdnerii irideus

Brook trout
Kawamasu
Salvelinus fontinalis fontinalis



Bull trout (mountain trout)
Iwana
Salvelinus pluvius

Pond-smelt
Wakasagi
Hypomesus olidus

Sweet fish
Ayu
Plecoglossus altivelis

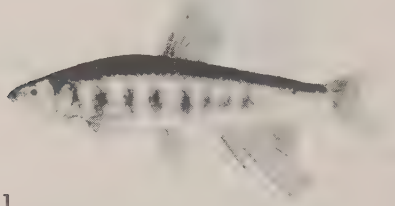
White bait
Shirauo
Salangichthys microdon

Common carp
Koi
Cyprinus carpio

Crucian carp
Funa
Carassius auratus

(Minnow)
Ugui
Tribolodon hakonensis hakonensis

(Minnow)
Oikawa
Zacco platypus



Eel
Unagi
Anguilla japonica

Loach
Dojo
Misgurnus anguillicaudatus

Goby
Mahaze
Achanthogobius flavimanus

Sculpin
Kajika
Cottus pollux

(Shiner)
Tanago
Acheilognathus moriokae

(Minnow)
Honmoroko
Gnathopogon caerulescens

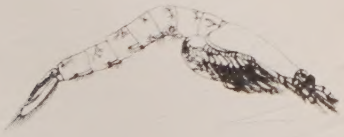
Cat fish
Namazu
Parasilurus asotus

Lamprey
Kawayatsume
Entosphenus japonicus

B Others

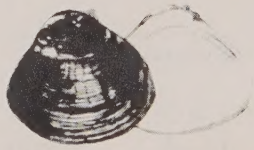
(Shrimp)
Nukaebi
Paratya compressa improvisa

Opossum shrimp
Isazaami
Neomysis intermedia

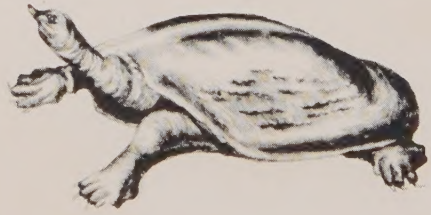


Bull-frog
Ushigaeru
Rana catesbiana

(Corbicula)
Yamatoshijimi
Corbicula japonica



Snapping turtle
Suppon
Amyda japonica



(Aquatic plant)
Kawanori
Prasiola japonica

EXPLANATORY NOTES

1. Sources of statistics

Table No. 1 ~ 9, 12 ~ 13, 16, 18(B), 19(B)	Statistics and Information Department, Ministry of Agriculture and Forestry.
Table No. 10, 11, 17, 18	Fishery Agency, Ministry of Agriculture and Forestry.
Table No. 14 ~ 16	Customs Division, Ministry of Finance
Table No. 18(A), 19(A)	Bureau of Statistics, Office of the Prime Minister.
Reference Table 1, 2	F.A.O.

2. Period of inquisition

As a principle, the statistics in this bulletin are inquired by the Calendar year but the figures of the whaling in the Antarctic Ocean are given for the "whaling year" (from Nov. 1969 to Mar. 1970)

3. Symbols

(0)	Means "Less than the unit amount"
(---)	Means "Unknown or not available"
(-)	Means "No record"
(△)	Means "Minus"